MISSION OPERATIONS AND DATA SYSTEMS DIRECTORATE

Landsat 7 Processing System (LPS) Users Guide

Release 2

Volume 2

June 1997

National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland

Landsat 7 Processing System (LPS)
Users Guide

Release 2

June 1997

Prepared by:

_____

Neil Ottenstein, Systems Engineering   Date
Landsat 7 Processing System, CNMOS, Computer Sciences Corporation

Concurred by:

_____

Jeffrey Hosler, Software Engineering Manager   Date
Landsat 7 Processing System, Code 514, Goddard Space Flight Center

Approved by:

_____

Daniel Ferry, Software Task Leader   Date
Landsat 7 Processing System, CNMOS, Computer Sciences Corporation

Approved by:

_____

Nathaniel Daniel, Element Manager   Date
Landsat 7 Processing System, CNMOS, Computer Sciences Corporation

Approved by:

_____

Robert Schweiss, System Engineering Manager   Date
Landsat 7 Processing System, Code 514, Goddard Space Flight Center

Approved by:

_____

Joy Henegar, Project Manager   Date
Landsat 7 Processing System, Code 514, Goddard Space Flight Center

Goddard Space Flight Center
Greenbelt, Maryland

Preface

This document is under the control of the LPS Central Review Board (CRB).

Configuration change requests (CCRs) to this document, as well as supportive material justifying the proposed change, shall be submitted to the LPS CRB. Changes to this document shall be made by document change notice (DCN) or by complete revision.

Address questions and proposed changes concerning this document to

Jeffrey C. Hosler, Software Manager
Landsat 7 Processing System
Code 514
Goddard Space Flight Center
Greenbelt, Maryland 20771

Abstract

This document provides instructions for operating the Landsat 7 Processing System (LPS). It instructs the novice user in the performance of specific LPS operations and provides a detailed reference for the experienced user.

Keywords: *Landsat 7, Landsat 7 Processing System (LPS), users guide*

Contents

1. Introduction

2. Getting Started

3. Data Capture Operations

4. Raw Wideband Data Management

5. Level 0R Processing Management

6. Files Transfers to EDC DAAC

7. Report Generation

8. Testing the LPS

9. LPS Maintenance

10. LPS GUI Detailed Reference

Appendix A. LPS Error Messages

Appendix B. Directory Structure and File Name Formats

Appendix C. Process Catalog and Man Pages

Appendix D. Customizing Your Environment

Appendix E. Performing LPS Functions Through IRIX

Abbreviations and Acronyms

Glossary

References

Index

Tables

Figures

Appendix A. LPS Error Messages

A.1 Introduction

This appendix contains a list of error messages generated by the LPS software. The text of each error message appears along with the message's severity code, a description of the error's cause, and, where appropriate, instructions for correcting the error.

Oracle server messages can be found in Reference 6, Oracle forms messages can be found in Reference 7, and Oracle reports messages can be found in Reference 8.

A.2 Message Format

Each message has an entry with the following components:

- Priority: Message's IRIX priority, both the symbolic name and the numeric value

- Cause: Condition that causes the LPS software to generate the message

- Consequences: Effect the condition causing the message has on LPS software. The consequences are of most interest for error conditions. In this case, this entry states whether or not the LPS process continues to run and what actions have been taken to correct or compensate for the error (e.g., using a default value when an illegal one is supplied on the command line).

- Recommended action: What the user needs to do when the error is encountered

The messages appear in alphabetical order. The ordering includes the unit name, so messages from the same LPS unit appear together.

A.3 LPS Status and Error Messages

[idp_BandAbort.c] FATAL ERROR: IDP band aborted.

- Priority: ERROR (3)

- Cause: idp_Band process was terminated by the operating system.

- Consequences: Output may be unreliable.

- Recommended action: Check other error messages and report this error to LPS maintenance staff.

[idp_BandClose.c] BAND process is shutting down.

- Priority: INFO (6)

- Cause: idp_Band process competed normally.

- Consequences: None.

- Recommended action: None.

[idp_BandClose.c] Error closing band process' shared memory.

- Priority: CRITICAL (2)

- Cause: IDPS could not detach from the LPS shared memory.

- Consequences: Output may be unreliable.

- Recommended action:: Report this error to LPS maintenance staff.

[idp_BandClose.c] Error closing last subinterval in SWATH.

- Priority: CRITICAL (2)

- Cause: HDF-EOS SWdetach or SWclose function returned an error when attempting to complete a swath in a band file.

- Consequences: Band file may contain erroneous data.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandClose.c] Error disconnecting band process from DB.

- Priority: CRITICAL (2)

- Cause: IDPS could not logout from LPS database.

- Consequences: IDP_ACCT or LPS_FILE_INFO tables may contain erroneous data.

- Recommended action: Report this error to LPS database administrator (DBA).

[idp_BandClose.c] Error shutting down band process.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from a prior error that occurred during process shutdown.

- Consequences: Output may be unreliable.

- Recommended action: Check other error messages and report this error to LPS maintenance staff.

[idp_BandFileWrite.c] Fails to write format 1 band data.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from earlier failure in writing pixel data to a format 1 band file.

- Consequences: Band file might contain erroneous or incomplete data.

- Recommended action: Check for disk full condition or network problem.

[idp_BandFileWrite.c] Fails to write format 2 band data.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from earlier failure in writing pixel data to a format 2 band file.

- Consequences: Band file might contain erroneous or incomplete data.

- Recommended action: Check for disk full condition or network problem.

[idp_BandFileWrite.c] Fails to write scan information.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from earlier failure in writing scan-based geolocation information to band file.

- Consequences: Band file might contain erroneous or incomplete data.

- Recommended action: Check for disk full condition or network problem.

[idp_BandFileWrite.c] Fails to write scan TIME.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from earlier failure in writing scan time to band file.

- Consequences: Band file might contain erroneous or incomplete data.

- Recommended action: Check for disk full condition or network problem.

[idp_BandFillFile.c] Error updating IDP_ACCT table.

- Priority: ERROR (3)

- Cause: ORACLE error occurred when IDP attempted to update IDP_ACCT table.

- Consequences: Database may contain erroneous or incomplete data.

- Recommended action: Check for ORACLE error message that might also have been logged and report this error to LPS DBA.

[idp_BandFillFile.c] An empty major frame was received from MFP.

- Priority: WARNING (4)

- Cause: MFP sent IDP a major frame that did not contain valid data. This can occur when MFP needs to inform IDP that the end of the data for the current contact period has been reached, but has no more major frame information to pass on. This is not necessarily an error.

- Consequences: None.

- Recommended action: None.

[idp_BandFillFile.c] Band completed normally at end of contact.

- Priority: INFO (6)

- Cause: idp_Band completed normally.

- Consequences: None.

- Recommended action: None.

[idp_BandFillFile.c] Failed to close SWATH.

- Priority: CRITICAL (2)

- Cause: Secondary error message indicating earlier failure in closing a band file.

- Consequences: IDP terminates and the band file may contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and report this error to LPS maintenance staff.

[idp_BandFillFile.c] Failed to create swath file.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from failure to create a band file.

- Consequences: Band file was not created; IDPS terminates.

- Recommended action: Check for earlier error messages and for disk full condition or network problem.

[idp_BandFillFile.c] Failed to get next SCENE INFO.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from a message queue failure. An error occurred when IDP tried to read a scene information message from PCD. There may be a shared memory problem.

- Consequences: IDP terminates and band file might contain erroneous or incomplete data.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandFillFile.c] Failed to read major frame.

- Priority: CRITICAL (2)

- Cause: IDPS could not get a major frame from MFP shared memory. There is probably a system shared memory problem.

- Consequences: IDPS terminates.

- Recommended action: Report this error to LPS system administrator.

[idp_BandFillFile.c] Failed to reset swath file.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from an error that occurred when resetting a band file so that further information can be written to it. This could indicate a bug in the LPS software.

- Consequences: IDP terminates and the band file is probably erroneous.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandFillFile.c] Failed to UPDATE idp_Acct DB.

- Priority: CRITICAL (2)

- Cause: Secondary error message indicating a major failure in an earlier database update.

- Consequences: IDP terminates and the database may contain incomplete or erroneous data.

- Recommended action: Report this error to LPS DBA.

[idp_BandFillFile.c] Failed to write geolocation data for subinterval.

- Priority: CRITICAL (2)

- Cause: Secondary error message indicating earlier failure in writing geolocation data to the band file.

- Consequences: IDP terminates and the band file may contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem.

[idp_BandFillFile.c] Failed to write major frame.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from a failure to write data to a band file.

- Consequences: IDP terminates and the band file might contain erroneous or incomplete data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem.

[idp_BandFillFile.c] Unknown msg type received from PCDS by IDPS.

- Priority: CRITICAL (2)

- Cause: Data other than lps_scene_information message received on IDP/PCD message queue. There may be an IPC or shared memory system problem.

- Consequences: IDP terminates and the band file may contain incomplete or erroneous data.

- Recommended action: Report this error to LPS system administrator.

[idp_BandFillFile.c] Warning: No WRS scene geolocation data was received for subinterval %d.

- Priority: WARNING (4)

- Cause: IDP received end of subinterval message from PCD, but never received lps_scene_information message containing scene location information for current subinterval.

- Consequences: Band files for current subinterval contain no scene geolocation information and are therefore incomplete.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandFindScanNum.c] Erroneous major frame or scene time received.

- Priority: ERROR (3)

- Cause: Major frame time contained in major frame record received from MFP through shared memory is invalid.

- Consequences: Band file may contain incomplete or erroneous data.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandFindScanNum.c] Erroneous major frame or scene time received.

- Priority: ERROR (3)

- Cause: When comparing scene center and boundary times received from PCD with major frame times received from MFP, an error occurred due to one of the time values being invalid.

- Consequences: Band file may contain incomplete or erroneous data.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandFindScanNum.c] Erroneous major frame or scene time received.

- Priority: ERROR (3)

- Cause: When comparing scene center and boundary times received from PCD with major frame times received from MFP, an error occurred due to one of the time values being invalid.

- Consequences: Band file may contain incomplete or erroneous data.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandFindScene.c] Fail to read SCENE_INFO.

- Priority: CRITICAL (2)

- Cause: Failure occurred when attempting to read from the PCD message queue. Probably there is a system IPC problem.

- Consequences: IDPS will terminate.

- Recommended action: Report this error to LPS system administrator.

[idp_BandInit.c] idp_Band could not access MFP shared memory.

- Priority: CRITICAL (2)

- Cause: IPC system problem relating to shared memory.

- Consequences: IDP terminates.

- Recommended action: Report this error to LPS system administrator.

[idp_BandInit.c] idp_Band could not open the idp_ACCA message queue.

- Priority: CRITICAL (2)

- Cause: IPC system problem relating to message queue.

- Consequences: IDP terminates.

- Recommended action: Report this error to LPS system administrator.

[idp_BandInit.c] idp_Band could not open the idp_Browse message queue.

- Priority: CRITICAL (2)

- Cause: IPC system problem relating to message queue.

- Consequences: IDP terminates.

- Recommended action: Report this error to LPS system administrator.

[idp_BandInit.c] idp_Band could not open the PCD message queue.

- Priority: CRITICAL (2)

- Cause: IPC system problem relating to message queue.

- Consequences: IDP terminates.

- Recommended action: Report this error to LPS system administrator.

[idp_BandInit.c] idp_Band failed during process initialization.

- Priority: CRITICAL (2)

- Cause: Failure occurred in lps_ProcessInit while starting idp_Band process.

- Consequences: IDP terminates.

- Recommended action: Report this error to LPS maintenance staff.

[idp_BandInit.c] idp_Band process is starting.

- Priority: INFO (6)

- Cause: Normal processing: idp_Band process is initializing.

- Consequences: None.

- Recommended action: None.

[idp_BandMain.c] Error creating or writing band file.

- Priority: CRITICAL (2)

- Cause: Abnormal condition resulted from a write operation on a band file.

- Consequences: Content of band file may be unreliable.

- Recommended action: Check for earlier error messages and for disk full condition or network problem.

[idp_BandMain.c] IDPS BAND initialization fails.

- Priority: CRITICAL (2)

- Cause: Secondary error message resulting from earlier failure during idp_Band initialization.

- Consequences: IDP terminates.

- Recommended action: Check for earlier error messages and report this error to LPS maintenance staff.

[idp_BandReadMF.c] Failed to get READ BLOCK from MFPIDP shared memory.

- Priority: CRITICAL (2)

- Cause: lps_ShmGetRdBlk returned a failure condition. There is a serious problem with LPS shared memory.

- Consequences: IDP terminates.

- Recommended action: Report this error to LPS system administrator.

[idp_BandReadMF.c] Failed to put READ BLOCK to MFPIDP shared memory.

- Priority: CRITICAL (2)

- Cause: lps_ShmPutRdBlk returned a failure condition. There is a serious problem with LPS shared memory.

- Consequences: IDP terminates.

- Recommended action: Report this error to LPS system administrator.

[idp_HDF.c] <Various messages from ORACLE>

- Priority: ERROR (3)

- Cause: LPS_FILE_INFO table could not be updated. IDP captured a message from ORACLE and logged it.

- Consequences: Content of LPS_FILE_INFO table may be incomplete or erroneous.

- Recommended action: Report this error to LPS DBA and see ORACLE documentation.

[idp_HDF.c] Error creating an EOS swath in the band file.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured for an Earth Observing System (EOS) swath.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error creating the band file.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially created.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining alphanumeric scan timecode field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain alphanumeric scan timecode geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining alphanumeric time track dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain timecode geolocation dimension.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining alphanumeric timecode dimension.

- Priority: CRITICAL (2)

- Cause: HDF-EOS SWdefdim function returned failure condition while attempting to define timecode geolocation dimension.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining detector ID field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain detector ID geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining Julian scan timecode field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain Julian scan timecode geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining Julian timecode dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain numeric timecode geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining left-hand side offset dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain left-hand side offset geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining pixel cross-track field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain pixel cross-track field data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining right-hand side offset dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain right-hand side offset geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan data line field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan data line geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan detector ID dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan detector ID geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan ScanTrack geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan direction dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan direction geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan direction field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan direction geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan left-hand side offset field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan left-hand side offset geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan line number dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan line geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan number field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan number geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scan right-hand side offset field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan right-hand side offset geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene center coordinates dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene center coordinates geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene center latitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene center latitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene center longitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene center longitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene lower-left corner coordinates dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene lower-left corner coordinates geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene lower-left corner latitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene lower-left corner latitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene lower-left corner longitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene lower-left corner longitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene lower-right corner coordinates dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene lower-right corner coordinates geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene lower-right corner latitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene lower-right corner latitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene lower-right corner longitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene lower-right corner longitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene upper-left corner coordinates dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene upper-left corner coordinates geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene upper-left corner latitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain upper-left corner latitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene upper-left corner longitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene upper-left corner longitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene upper-right corner coordinates dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene upper-right corner coordinates geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene upper-right corner latitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene upper-right corner latitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining scene upper-right corner longitude field.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scene upper-right corner longitude geolocation data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining the pixel cross-track dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain pixel cross-track data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error defining the scan line track dimension.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain scan line track data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error generating a filename for band %d, subinterval %d.

- Priority: ERROR (3)

- Cause: Call to lps_FileNameCreate failed probably due to a database problem. To continue processing, IDP created its own filename for the band file.

- Consequences: Name of band file will contain correct subinterval number, band number, and file segment number; however, for remaining characters in the filename filler values are given.

- Recommended action:

[idp_HDF.c] Error in writing band 1–6 data in SWATH.

- Priority: CRITICAL (2)

- Cause: Format one scan line data could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error in writing band format 2 data in SWATH.

- Priority: CRITICAL (2)

- Cause: Format two scan line data could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error in writing TIME values in band SWATH.

- Priority: CRITICAL (2)

- Cause: Major frame time could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error indexed-mapping lower-left corner track to scan line track.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to index map an lower-left corner track to a scan line track.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error indexed-mapping lower-right corner track to scan line track.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to index map and lower-right corner track to a scan line track.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error indexed-mapping scene center track to scan line track.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to index map and scene center track to a scan line track.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error indexed-mapping upper-left corner track to scan line track.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to index map and upper-left corner track to a scan line track.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error indexed-mapping upper-right corner track to scan line track.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to index map and upper-right corner track to a scan line track.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error inserting band filename into the LPS database.

- Priority: ERROR (3)

- Cause: Failure occurred while updating LPS_FILE_INFO table.

- Consequences: LPS_FILE_INFO table may contain incomplete or erroneous data.

- Recommended action: Report this error to LPS DBA.

[idp_HDF.c] Error mapping alphanumeric time track to scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map alphanumeric time to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error mapping detector ID track to scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map a detector ID track to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error mapping Julian time track to scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map Julian time to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error mapping left-hand side offset track to scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map a left-hand side offset track to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error mapping right-hand side offset track to scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map a right-hand side offset track to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error mapping scan direction track to scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map a scan direction track to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error mapping scan line number track to scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map a scan line number track to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error mapping scan track to the scan lines.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to map a scan track to scan data.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error resetting the swath.

- Priority: CRITICAL (2)

- Cause: Band file swath could not be reset after initially defining geolocation data and mappings.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing a detector ID to the band file.

- Priority: CRITICAL (2)

- Cause: Detector ID numbers could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing an LHS margin for an even detector to the band file.

- Priority: CRITICAL (2)

- Cause: Left-hand side margin value could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing an LHS margin for an odd detector to the band file.

- Priority: CRITICAL (2)

- Cause: Left-hand side margin value could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing an RHS margin for an even detector to the band file.

- Priority: CRITICAL (2)

- Cause: Right-hand side margin value could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing an RHS margin for an odd detector to the band file.

- Priority: CRITICAL (2)

- Cause: Right-hand side margin value could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing a scan data line number to the band file.

- Priority: CRITICAL (2)

- Cause: Scan data line numbers could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing a scan direction to the band file.

- Priority: CRITICAL (2)

- Cause: Scan direction data could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing a scan number to the band file.

- Priority: CRITICAL (2)

- Cause: Scan numbers could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing detector count attribute.

- Priority: CRITICAL (2)

- Cause: Band file could not be initially configured to contain detector count attribute.

- Consequences: IDP terminates.

- Recommended action: Check for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene center latitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene center latitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene center longitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene center longitude could not be written to the band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene lower-left corner latitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene lower-left corner latitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene lower-left corner longitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene lower-left corner longitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene lower-right corner latitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene lower-right corner latitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene lower-right corner longitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene lower-right corner longitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene upper-left corner latitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene upper-left corner latitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene upper-left corner longitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene upper-left corner longitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene upper-right corner latitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene upper-right corner latitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Error writing the scene upper-right corner longitude to the band file.

- Priority: CRITICAL (2)

- Cause: Scene upper-right corner longitude could not be written to band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] idp_Band creating band file "%s."

- Priority: INFO (6)

- Cause: Normal processing.

- Consequences: None.

- Recommended action: None.

[idp_HDF.c] Unable to attach SWATH.

- Priority: CRITICAL (2)

- Cause: Band file swath could not be reattached during swath reset operation.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Unable to close SWATH.

- Priority: CRITICAL (2)

- Cause: Band file swath could not be closed.

- Consequences: IDP terminates.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Unable to detach SWATH.

- Priority: CRITICAL (2)

- Cause: Band file swath could not be detached during a close operation.

- Consequences: IDP terminates.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] Unable to detach SWATH.

- Priority: CRITICAL (2)

- Cause: Band file swath could not be detached during swath reset operation.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_HDF.c] WRITE_GEOLOCATION_ATTRIBUTE_FAIL.

- Priority: CRITICAL (2)

- Cause: Scene count attribute could not be written to a band file.

- Consequences: IDP terminates and band file will contain incomplete or erroneous data.

- Recommended action: Check for earlier error messages and for disk full condition or network problem. If this is not the problem, report this error to LPS maintenance staff.

[idp_Main.c] IDP main program could not access executable "%s": <cause>.

- Priority: ERROR (3)

- Cause: idp_Main could not access the executable program for a child.

- Consequences: Child process' functionality will not be performed.

- Recommended action: Report this error to LPS maintenance staff.

[idp_Main.c] idp_Main failed to initialize.

- Priority: ERROR (3)

- Cause: idp_Main failed during startup.

- Consequences: IDPS will terminate.

- Recommended action: Report this error to LPS maintenance staff.

[idp_Main.c] Process %s could not be forked by idp_Main.

- Priority: ERROR (3)

- Cause: idp_Main could not start child process "%s."

- Consequences: Functions performed by x will not be performed.

- Recommended action: Report this error to LPS maintenance staff.

[idp_MainAbort.c] FATAL ERROR: IDP Main program aborted.

- Priority: ERROR (3)

- Cause: The idp_Main process was terminated by the operating system.

- Consequences: IDPS terminates.

- Recommended action: Report this error to LPS maintenance staff.

[idp_MainInit.c] Error initializing idp_Main process.

- Priority: ERROR (3)

- Cause: Error occurred in lps_ProcessInit while starting idp_Main.

- Consequences: IDPS terminates.

- Recommended action: Report this error to LPS maintenance staff.

[idp_MainInit.c] IDPS is initializing.

- Priority: INFO (6)

- Cause: IDPS is starting up.

- Consequences: None.

- Recommended action: None.

[idp_MainProcessChildSignal.c] Process "%s" completed normally.

- Priority: INFO (6)

- Cause: Normal completion of child process "%s."

- Consequences: None.

- Recommended action: None.

[idp_MainProcessChildSignal.c] Process "%s" terminated with errors.

- Priority: ERROR (3)

- Cause: Child process "%s" terminated abnormally for an unknown reason.

- Consequences: Child process' output may be unreliable.

- Recommended action: Report this error to LPS maintenance staff.

[idp_MainProcessChildSignal.c] Unknown process [pid=%d] reported to idp_Main.

- Priority: WARNING (4)

- Cause: IDPS received erroneous PID from a completed child process.

- Consequences: Unpredictable.

- Recommended action: Report this error to LPS maintenance staff.

[idp_MainShutdown.c] IDP Main processing completed.

- Priority: INFO (6)

- Cause: IDPS completed normally.

- Consequences: None.

- Recommended action: None.

[idp_MainShutdown.c] IDP Main processing terminated with errors.

- Priority: ERROR (3)

- Cause: IDP terminated abnormally for unknown reason.

- Consequences: Output may be unreliable.

- Recommended action: Check other error messages and report this error to LPS maintenance staff.

[idp_MainShutdown.c] Terminating IDP child process "%s."

- Priority: NOTICE (5)

- Cause: Child process %s did not terminate itself and was left hanging.

- Consequences: Not necessarily a problem, but should be investigated.

- Recommended action: Report this error to LPS maintenance staff.

[idp_MainShutdown.c] Unknown termination condition during IDP Main shutdown.

- Priority: ERROR (3)

- Cause: Unexpected return condition received from IDPS child process.

- Consequences: Output may be unreliable.

- Recommended action: Check other error messages and report this error to LPS maintenance staff.

[ldt_AcceptClient.c] Client socket connection failed.

- Priority: ALERT (1)

- Cause: Either an invalid server socket descriptor or server socket is not available.

- Consequences: Process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify if server socket is created and valid server socket descriptor is used.

[ldt_AcceptClient.c] Set client socket option error.

- Priority: ALERT (1)

- Cause: Error in setting client socket option.

- Consequences: Socket connection will be failed and the process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify client socket descriptor is valid.

[ldt_Broadcast.c] Write socket in error for DAN, write attempts = 3.

- Priority: WARNING (4)

- Cause: Either message is too large to fit in the socket buffer or socket connection is closed.

- Consequences: After maximum number of writing attempts is reached, the message is ignored. The process continues to run.

- Recommended action: Verify message size and socket connection.

[ldt_Broadcast.c] Successfully sent a DAN message.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: ALERT the LPS operator for sending a message successfully.

- Recommended action: None.

[ldt_CreateDAN.c] ldt_db_ExtrDANStruct failed.

- Priority: ALERT (1)

- Cause: ldt_db_ExtrDANStruct failed to create DAN structure.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_CreateDAN.c] ldt_db_GetSubIntv failed.

- Priority: ALERT (1)

- Cause: ldt_db_GetSubIntv failed to retrieve subinterval list.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_CreateDAN.c] ldt_db_InsertFileSetInfo failed.

- Priority: ALERT (1)

- Cause: ldt_db_InsertFileSetInfo failed to insert file set information.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_CreateDAN.c] ldt_write_dan_information failed.

- Priority: ALERT (1)

- Cause: ldt_write_dan_information failed to write DAN file.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_CreateServer.c] Open socket error.

- Priority: ALERT (1)

- Cause: System is not set up correctly.

- Consequences: No LPS server will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS system administrator.

[ldt_CreateServer.c] Set socket blksize error.

- Priority: ALERT (1)

- Cause: Either invalid server socket descriptor used or system is not set up correctly.

- Consequences: No LPS server will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify server socket descriptor and report this error to LPS system administrator.

[ldt_CreateServer.c] Set socket nonblocking in error.

- Priority: ALERT (1)

- Cause: Invalid server socket descriptor used.

- Consequences: No LPS server will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify server socket descriptor.

[ldt_CreateServer.c] Socket binding error. Will try again after 30 seconds.

- Priority: WARNING (4)

- Cause: Invalid port id used.

- Consequences: No LPS server will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify server port id used.

[ldt_CreateServer.c] Socket bound. Listening for connection.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify LPS operator.

- Recommended action: None.

[ldt_CreateServer.c] Listen error in LDTS receive_DDN process.

- Priority: ALERT (1)

- Cause: Invalid server socket descriptor used.

- Consequences: Cannot listen for connection from client. The server socket is closed.

- Recommended action: Verify server socket descriptor.

[ldt_create_client.c] Create client socket error.

- Priority: ALERT (1)

- Cause: System is not set up correctly.

- Consequences: No client socket will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS system administrator.

[ldt_create_client.c] Gethostbyname error. Socket closed.

- Priority: ALERT (1)

- Cause: Invalid server host name used.

- Consequences: No client socket will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify server host name is correct.

[ldt_create_client.c] Could not set socket to non-blocking.

- Priority: ALERT (1)

- Cause: Either system error or invalid client socket descriptor used.

- Consequences: No client socket will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danProcessLongDAA.c] Incorrect message type received from DAA message. Current DAA will not be processed.

- Priority: WARNING (4)

- Cause: Invalid DAA message type.

- Consequences: Long DAA message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify DAA message type sent by ECS.

[ldt_danProcessLongDAA.c] Incorrect message length received from DAA message. Current DAA will not be processed.

- Priority: WARNING (4)

- Cause: Invalid DAA message length.

- Consequences: Long DAA message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify DAA message length sent by ECS.

[ldt_danProcessLongDAA.c] A DAN acknowledgment has been received for DAN sequence number = 1111.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify LPS operator.

- Recommended action: None.

[ldt_danProcessLongDAA.c] Unable to retrieve contact sequence id from LDT_DAN_Info table. Current DAA will not be processed.

- Priority: WARNING (4)

- Cause: Database error.

- Consequences: Long DAA message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessLongDAA.c] Unable to retrieve contact sequence id from LDT_DAN_Info table. Current DAA will not be processed.

- Priority: WARNING (4)

- Cause: Database table LDT_DAN_Info access error or database is down.

- Consequences: Long DAA message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessLongDAA.c] DAN acknowledgment error with disposition = 1, Descriptor = 12345, DAN Sequence ID = 1111.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify LPS operator.

- Recommended action: None.

[ldt_danProcessLongDAA.c] Unable to update DAA_Status record in LDT_File_Group_Info table. Database consistency for current DAA will be lost.

- Priority: ALERT (1)

- Cause: Database table LDT_File_Group_Info access error or database is down.

- Consequences: Long DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessLongDAA.c] Unable to update DAA_Status record in LDT_File_Set_Info table. Database consistency for current DAA will be lost.

- Priority: ALERT (1)

- Cause: Database table LDT_File_Set_Info access error or database is down.

- Consequences: Long DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessLongDAA.c] Unable to update DAA_Status record in LDT_DAN_Info table. Database consistency for current DAA will be lost.

- Priority: ALERT (1)

- Cause: Database table LDT_DAN_Info access error or database is down.

- Consequences: Long DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessLongDAA.c] Error in committing database transactions. Database consistency for current DAA will be lost.

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: Long DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessLongDAA.c] Error in rollback LDT database table transaction(s).

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: Database consistency will be lost.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessShortDAA.c] Incorrect message type received from DAA message. Current DAA will not be processed.

- Priority: WARNING (4)

- Cause: Invalid message type in short DAA message.

- Consequences: Short DAA will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify short DAA message type used by ECS.

[ldt_danProcessShortDAA.c] Incorrect message length received from DAA message. Current DAA will not be processed.

- Priority: WARNING (4)

- Cause: Invalid message length in short DAA message.

- Consequences: Short DDN will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify short DAA message length used by ECS.

[ldt_danProcessShortDAA.c] A DAN acknowledgment has been received for DAN sequence number = 1111, Disposition = 1.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notice to LPS operator that a short DDN is received.

- Recommended action: None.

[ldt_danProcessShortDAA.c] Unable to retrieve contact sequence id from LDT_DAN_Info table. Current DAA will not be processed.

- Priority: WARNING (4)

- Cause: Database table LPS_DAN_Info access error or database is down.

- Consequences: Short DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessShortDAA.c] Unable to update DAA_Status record in LDT_File_Set_Info table.

- Priority: WARNING (4)

- Cause: Database table LDT_File_Set_Info access error or database is down.

- Consequences: Short DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessShortDAA.c] Unable to update DAA_Status record in LDT_DAN_Info table. Database consistency for current DAA will be lost.

- Priority: WARNING (4)

- Cause: Database table LDT_DAN_Info access error or database is down.

- Consequences: Short DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danProcessShortDAA.c] Error in committing database transactions. Database consistency for current DAA will be lost.

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: Database consistency for incoming short DAA message will be lost. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danRcvDAA.c] Error in getting current EDC time. Receive DAA is aborted.

- Priority: ALERT (1)

- Cause: Error in getting current system time or converting current time into NASA format.

- Consequences: DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Error in allocating socket buffer to receive DAA. Receive DAA is aborted.

- Priority: ALERT (1)

- Cause: System error.

- Consequences: DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Unable to read ECS socket. Receive DAA is aborted.

- Priority: ALERT (1)

- Cause: ECS-LPS socket connection is broken.

- Consequences: DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify ECS server is running and ECS-LPS socket is still connected. Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Unable to read socket due to ECS socket closed. Receive DAA is aborted.

- Priority: ALERT (1)

- Cause: ECS server is down.

- Consequences: DAA message will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify ECS server socket is up and running.

[ldt_danRcvDAA.c] Unable to read socket due to socket read timeout. LPS-ECS socket connection is closed.

- Priority: WARNING (4)

- Cause: No DAA message is sent over the socket from ECS.

- Consequences: LPS-ECS socket connection is closed and connection is reestablished.

- Recommended action: Check timeout value for receiving DAA in Valid-LDT_Parms table to make sure it is appropriate.

[ldt_danRcvDAA.c] Unable to read socket due to internal socket processing error. Receive DAA is aborted.

- Priority: WARNING (4)

- Cause: Socket message processing error.

- Consequences: Receive DAA process is aborted and process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Error in writing DAA message into file.

- Priority: WARNING (4)

- Cause: System I/O error.

- Consequences: Current DAA message will not be saved. The process continues to run.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Error in processing short DAA.

- Priority: ALERT (1)

- Cause: Error in processing short DAA message.

- Consequences: Receive DAA process is aborted and process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Error in processing long DAA.

- Priority: ALERT (1)

- Cause: Error in processing long DAA message.

- Consequences: Process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Error in processing long DAA.

- Priority: WARNING (4)

- Cause: System error to get current time.

- Consequences: Receive DAA process is aborted and process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_danRcvDAA.c] Unable to retrieve contact sequence id from LDT_DAN_Info table.

- Priority: WARNING (4)

- Cause: Database table LDT_DAN_Info access error or database is down.

- Consequences: Receive DAA process is aborted and process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danRcvDAA.c] Unable to update DAA_Status record in LDT_File_Set_Info table.

- Priority: WARNING (4)

- Cause: Database table LDT_File_Set_Info access error or database is down.

- Consequences: Receive DAA process is aborted and process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danRcvDAA.c] Error in updating DAN_Status record in LDT_DAN_Info database table.

- Priority: WARNING (4)

- Cause: Database table LDT_DAN_Info access error or database is down.

- Consequences: Receive DAA process is aborted and process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_danRcvDAA.c] Error in rollback LDT_File_Set_Info table update.

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: Cannot rollback database transactions and the database consistency is destroyed.

- Recommended action: Report this error to LPS DBA.

[ldt_danRcvDAA.c] Error in committing LDT_File_Set_Info and LDT_DAN_Info table update.

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: All database transactions will not be committed and database consistency is destroyed.

- Recommended action: Report this error to LPS DBA.

[ldt_danRcvDAA.c] Attempt on receiving DAN acknowledgment timeout.

- Priority: WARNING (4)

- Cause: No DAA message sent over from ECS for receive DAA timeout value is passed.

- Consequences: Current ECS-LPS socket connection is closed and reestablish the connection is followed.

- Recommended action: Verify receive DAA timeout parameter in Valid_LDT_Parms table. Report this error to LPS maintenance staff.

[ldt_db_ExtrDANStruct.pc] (see oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: DAN file will not be constructed. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetDANContactInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from the database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetDANContactInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from the database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetDANXferState.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from the database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetDANXferState.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from the database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetFileGrpInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from the database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetFileSubIntvId.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetLDTParm.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetLDTProcessId.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_GetSubintv.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be retrieved from database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_InsertDANInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be inserted into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_InsertFileGroupInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be inserted into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_InsertFileSetInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be inserted into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_UpdateDANInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be updated into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_UpdateDDNRcvTimeInDANInfo.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be updated into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_UpdateFileGrpDAA.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be updated into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_UpdateFileGrpXferStat.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be updated into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_UpdateFileSetDAA.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be updated into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_UpdateFileSetXferStat.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be updated into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_db_UpdateFileXferStat.pc] (see Oracle error message)

- Priority: WARNING (4)

- Cause: Database table access error or database is down.

- Consequences: Data will not be updated into database. The process exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnAuthentReq.c] Read ECS client authentication request error.

- Priority: ALERT (1)

- Cause: Socket connection is broken.

- Consequences: Client socket connection is closed and reestablish socket connection is followed. The process exits immediately with error code AUTH_ESOCKREAD.

- Recommended action: Verify socket connection.

[ldt_ddnAuthentReq.c] Error in getting current EDC time.

- Priority: ALERT (1)

- Cause: Unable to convert current system time into NASA time format.

- Consequences: Client authentication request will not be processed. The process exits immediately with error code AUTH_ESYSERR.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnAuthentReq.c] ECS client authentication request timeout.

- Priority: WARNING (4)

- Cause: No client authentication request message sent.

- Consequences: Client socket connection is closed and reestablish socket connection is followed. The process exits immediately with error code AUTH_ETIMEOUT.

- Recommended action: Verify authentication request timeout parameter in Valid_LDT_Parms is appropriate.

[ldt_ddnAuthentReq.c] Error in writing authentication request message into file.

- Priority: WARNING (4)

- Cause: Unable to save authentication request message due to I/O error.

- Consequences: No authentication request message will be saved.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnAuthentReq.c] No ECS client authentication request found.

- Priority: WARNING (4)

- Cause: Empty authentication message is sent over.

- Consequences: Number of failed authentication request attempts is incremented. The process exits immediately with error code AUTH_EREJECT.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnAuthentReq.c] Invalid message type received for ECS client authentication request.

- Priority: WARNING (4)

- Cause: Incorrect message type used in ECS authentication request.

- Consequences: Authentication is rejected. The process exits immediately with error code AUTH_EREJECT.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnAuthentReq.c] Bad authentication request, authentication no. = 002, msg_type = 11, msg_len = 48, destination = lps1, origination = ecs1, user_id = ECS, password = xxxxx.

- Priority: NOTICE (5)

- Cause: At least one of authentication request message fields is invalid.

- Consequences: Authentication request is rejected. The process exits immediately with error code AUTH_EREJECT.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnAuthentReq.c] Number of bad authentication request from ECS exceeds maximum limit.

- Priority: NOTICE (5)

- Cause: Total number of bad authentication request attempts has reached maximum allowable number.

- Consequences: Client socket is closed and reestablish client socket connection is followed. The process exits immediately with error code AUTH_EREJECT.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnAuthentReq.c] Error in sending ECS client authentication response message.

- Priority: WARNING (4)

- Cause: Unable to write authentication response message into socket.

- Consequences: Client authentication request is ignored and client socket is closed and reestablish client socket connection is followed. The process exits immediately with error code AUTH_ERESP.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnAuthentReq.c] Error in checking LDT-ECS socket activity.

- Priority: ALERT (1)

- Cause: Socket connection error.

- Consequences: Socket connection will be closed and rcvddn process will be aborted. The process exits immediately with error code AUTH_ESYSERR.

- Recommended action: Verify socket connection is correct.

[ldt_ddnProcessDDN.c] Error in writing DDN message into file.

- Priority: WARNING (4)

- Cause: System I/O error.

- Consequences: No DDN message is saved. The process continues to run.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcessDDN.c] Error in getting DDN receive time. DDN receive time stamp in LDT_DAN_Info will not be updated.

- Priority: WARNING (4)

- Cause: Unable to get current time via time() system call.

- Consequences: DDN receive time stamp in LDT_DAN_Info will not be updated. The process continues.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcessDDN.c] Error in writing DDA message into file.

- Priority: WARNING (4)

- Cause: System I/O error.

- Consequences: No DDA message is saved. The process continues to run.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcessDDN.c] Error in sending DDN acknowledgment to ECS.

- Priority: WARNING (4)

- Cause: Unable to write DDA message via socket.

- Consequences: Socket connection error. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcessDDN.c] Unable to process short DDN for DAN sequence no = 1111.

- Priority: WARNING (4)

- Cause: Error in either parsing short DDN message or database transactions.

- Consequences: Short DDN message is ignored and database consistency will be lost. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcessDDN.c] Unable to process long DDN for DAN sequence no = 1112.

- Priority: WARNING (4)

- Cause: Error in either parsing long DDN message or database transactions.

- Consequences: Long DDN message is ignored and database consistency will be lost. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcessDDN.c] Unknown message type received.

- Priority: WARNING (4)

- Cause: Incorrect message type used in DDN message.

- Consequences: DDN message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcTermSig.c] Receive DDN process terminated.

- Priority: ALERT (1)

- Cause: Process is terminated by SIGTERM signal sent by operator.

- Consequences: Rcvddn process is terminated. The process exits immediately with error code EXIT_SUCCESS.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcTermSig.c] Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Rcvddn process was aborted by signal other than SIGTERM.

- Consequences: Rcvddn process is aborted. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnProcTermSig.c] Error in disconnecting from database server for receiving DDN process.

- Priority: WARNING (4)

- Cause: Database server is down.

- Consequences: Database transactions are questionable. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyLongDDN.c] Incorrect message type received in DDN message. DDN will not be processed.

- Priority: WARNING (4)

- Cause: Invalid message type used in long DDN.

- Consequences: Long DDN message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnVerifyLongDDN.c] Incorrect message length received in DDN message. DDN will not be processed.

- Priority: WARNING (4)

- Cause: Invalid message length used in long DDN.

- Consequences: Long DDN message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnVerifyLongDDN.c] A long DDN from ECS has been received for DAN sequence number = 1111.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator that a long DDN is received.

- Recommended action: None.

[ldt_ddnVerifyLongDDN.c] Unable to access LDT_DAN_Info table in database. Long DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database error.

- Consequences: Long DDN message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyLongDDN.c] Error in allocating trouble subinterval list buffer. Long DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: ALERT (1)

- Cause: Error in allocating buffer.

- Consequences: Long DDN message is ignored. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnVerifyLongDDN.c] Data delivery error for file = L71EDC119623513030.CAL, DDN disposition = 2.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator that a particular L0R file failed to be transferred over into ECS.

- Recommended action: None.

[ldt_ddnVerifyLongDDN.c] Error in retrieving data from LPS_File_Info table. Long DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: ALERT (1)

- Cause: Database table LPS_File_Info access error or database is down.

- Consequences: Long DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyLongDDN.c] Error in updating LDT_File_Group_Info table. Long DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: ALERT (1)

- Cause: Database table LDT_File_Group_Info access error or database is down.

- Consequences: Long DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyLongDDN.c] Error in updating LPS_File_Info table. Long DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: ALERT (1)

- Cause: Database table LPS_File_Info access error or database is down.

- Consequences: Long DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyLongDDN.c] Unable to update LDT_File_Set_Info table in database. Long DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database table LDT_File_Set_Info access error or database is down.

- Consequences: Long DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyLongDDN.c] Error in committing all database transactions. Long DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: Long DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyLongDDN.c] Error in rollback LDT database transaction(s).

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: Long DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyOriginator.c] Invalid user hostname.

- Priority: WARNING (4)

- Cause: Invalid user hostname.

- Consequences: User authentication failed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify user authentication request message.

[ldt_ddnVerifyOriginator.c] Invalid user id.

- Priority: WARNING (4)

- Cause: Invalid user id.

- Consequences: User authentication failed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify user authentication request message.

[ldt_ddnVerifyOriginator.c] Invalid user password.

- Priority: WARNING (4)

- Cause: Invalid user password.

- Consequences: User authentication failed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify user authentication request message.

[ldt_ddnVerifyShortDDN.c] Incorrect message type received in DDN message. DDN will not be processed.

- Priority: WARNING (4)

- Cause: Invalid message type in short DDN message.

- Consequences: Short DDN will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify short DDN message type used by ECS.

[ldt_ddnVerifyShortDDN.c] Incorrect message length received in DDN message. DDN will not be processed.

- Priority: WARNING (4)

- Cause: Invalid message length in short DDN message.

- Consequences: Short DDN will not be processed. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify short DDN message length used by ECS.

[ldt_ddnVerifyShortDDN.c] A short DDN from ECS has been received for DAN sequence number = 1112.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator that a short DDN is received.

- Recommended action: None.

[ldt_ddnVerifyShortDDN.c] Unknown disposition received in DDN message.

- Priority: NOTICE (5)

- Cause: Incorrect disposition used in short DDN message.

- Consequences: The process will continue to run.

- Recommended action: Verify short DDN message disposition used by ECS.

[ldt_ddnVerifyShortDDN.c] Data delivery error for DAN sequence number = 1112, DDN disposition = 2.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator.

- Recommended action: Verify file transfer problem for DAN sequence number = 1112.

[ldt_ddnVerifyShortDDN.c] Unable to access LDT_DAN_Info table in database. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database table LPS_DAN_Info access error or database is down.

- Consequences: Short DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyShortDDN.c] Unable to access Sub_Intv table in database. Short DDN verification is aborted. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database table Sub_Intv access error or database is down.

- Consequences: Short DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyShortDDN.c] Error in updating LDT_File_Set_Info table in database. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database table LDT_File_Set_Info access error or database is down.

- Consequences: Short DDN message will not be processed and rcvddn process will be aborted. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyShortDDN.c] Error in updating LPS_File_Info table in database. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database table LPS_File_Info access error or database is down.

- Consequences: Database table LPS_File_Info will not be updated for incoming short DDN message. The process will continue to run.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyShortDDN.c] Error in committing LDT_File_Set_Info update. Database consistency for current DDN will be lost.

- Priority: WARNING (4)

- Cause: Database error or database is down.

- Consequences: Database consistency for incoming short DDN message will be lost. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[ldt_ddnVerifyShortDDN.c] Error in forking LDTS file deletion process. All files under current contact period will not be deleted.

- Priority: WARNING (4)

- Cause: Deletefile process cannot be forked.

- Consequences: No file in current DAN will be deleted. The process exits immediately with error code LPS_EFORK.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ddnVerifyShortDDN.c] Unable to reap file deletion child process status. This may result in incomplete file deletion for a contact.

- Priority: WARNING (4)

- Cause: Cannot reap child exit status.

- Consequences: Unable to determine deletefile process is complete. The process exits immediately with error code LPS_EFORK.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_establish_client.c] Get time error.

- Priority: ALERT (1)

- Cause: System error or error in converting system time format into NASA time format.

- Consequences: No client socket will be created. The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_establish_client.c] Number of sending authentication attempts exceeded 3 times.

- Priority: ALERT (1)

- Cause: Number of authentication requests exceeds the limit.

- Consequences: No client socket will be created. The process exits immediately with error code LPS_FAILURE. The socket connection will be closed.

- Recommended action: Verify the authentication request message is correct.

[ldt_establish_client.c] Error sending authentication request. Will try again after 2 seconds.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator.

- Recommended action: None.

[ldt_establish_client.c] Authentication request sent to ECS.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator.

- Recommended action: None.

[ldt_establish_client.c] Authentication Response timeout.

- Priority: WARNING (4)

- Cause: Did not get authentication response before the timeout value is reached.

- Consequences: The process will quit for waiting authentication response and retry authentication request.

- Recommended action: Verify authentication response timeout parameter in Valid_lps_Parms table.

[ldt_establish_client.c] Socket read error while querying authentication response.

- Priority: WARNING (4)

- Cause: Either socket connection is broken or system error.

- Consequences: The process will quit for waiting authentication response and retry authentication request.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_establish_client.c] Socket closed while querying authentication response.

- Priority: WARNING (4)

- Cause: Either server closed the socket or system error.

- Consequences: The process will quit for waiting authentication response and retry authentication request.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_establish_client.c] ECS accepted authentication request.

- Priority: INFO (6)

- Cause: None.

- Consequences: Notify the LPS operator.

- Recommended action: None.

[ldt_establish_client.c] ECS rejected authentication request.

- Priority: INFO (6)

- Cause: None.

- Consequences: Notify the LPS operator.

- Recommended action: None.

[ldt_establish_client.c] Invalid message type for authentication response.

- Priority: INFO (6)

- Cause: Invalid authentication response message type used by ECS.

- Consequences: The process will retry the authentication request.

- Recommended action: None.

[ldt_RcvDDN.c] Unable to initialize receiving DDN process. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Either database connection failure or error in installing signal handling function.

- Consequences: The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Verify the database connection function or the signal handling function is working properly.

[ldt_RcvDDN.c] Unable to insert receive DDN process ID into LDT_Process_Id table. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Database LDT_Process_Id table record insertion failure.

- Consequences: The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Identify the problem for inserting a record into LDT_Process_Id table.

[ldt_RcvDDN.c] Error in committing LDT process ID insertion. Receive DDN process cannot be terminated via MACS.

- Priority: WARNING (4)

- Cause: Failure to commit the database LDT_Process_Id table insertion transaction.

- Consequences: rcvddn process will continue to run.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_RcvDDN.c] Unable to retrieve LDTS processing parameters from database table. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Error in retrieving Valid_LDT_Parms database table.

- Consequences: The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Identify the problem for retrieving the Valid_LDT_Parms database record.

[ldt_RcvDDN.c] Unable to retrieve LPS configuration from database table. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Error in retrieving LPS_Configuration database table.

- Consequences: The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Identify the problem for retrieving the LPS_Configuration database record.

[ldt_RcvDDN.c] Error in creating receive DDN server. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Invalid server port number used.

- Consequences: The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Verify the server port number is correct and not being used.

[ldt_RcvDDN.c] ECS client connection failed. Reestablish tcp connection is followed.

- Priority: NOTICE (5)

- Cause: Client socket binding error.

- Consequences: The process will continue to accept client connect until maximum number of failed client connections reached.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_RcvDDN.c] Consecutive ECS client connections failed. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: The maximum number of failed client connections allowed is reached.

- Consequences: Rcvddn process will be terminated. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Check the tcp connections setups at both server and client side.

[ldt_RcvDDN.c] Error in getting current time. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: System problem results in converting current time into NASA time format.

- Consequences: Socket connection will be closed and rcvddn process will be aborted. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Verify system is running normally.

[ldt_RcvDDN.c] ECS client authentication failed due to socket read error. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Error in reading client authentication request message via socket read.

- Consequences: Socket connection will be closed and rcvddn process will be aborted. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Verify socket connection and client authentication request message are correct.

[ldt_RcvDDN.c] ECS client authentication processing error. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Unable to parse client authentication request message.

- Consequences: Socket connection will be closed and rcvddn process will be aborted. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Verify client authentication request message is submitted correctly.

[ldt_RcvDDN.c] ECS client authentication timeout. Socket connection is closed.

- Priority: WARNING (4)

- Cause: Read client authentication request message timeout.

- Consequences: Socket connection will be closed and client reconnection will be followed.

- Recommended action: Verify client socket connection and client authentication request timeout setting in Valid_LDT_Parms table.

[ldt_RcvDDN.c] ECS client authentication rejected. Socket connection is closed.

- Priority: WARNING (4)

- Cause: Client authentication request with invalid message type, or invalid message length, or invalid destination system_id, or invalid origination system_id, or user_id or user_passwd and the number of requests exceeds the maximum number of authentication requests allowed.

- Consequences: Socket connection will be closed and client reconnection will be followed.

- Recommended action: Make sure the client authentication request message is correct.

[ldt_RcvDDN.c] Error in sending ECS client authentication. Receive DDN process aborted.

- Priority: WARNING (4)

- Cause: Unable to send client authentication response message.

- Consequences: Socket connection will be closed and client reconnection will be followed.

- Recommended action: Verify client authentication response message is correct.

[ldt_RcvDDN.c] Error in reading client socket. Socket connection is closed. Reestablish socket connection is followed.

- Priority: NOTICE (5)

- Cause: Socket connection is broken.

- Consequences: Socket connection will be closed and reestablish socket connection is followed.

- Recommended action: Verify tcp socket connection.

[ldt_RcvDDN.c] Client socket connection is closed. Reestablish socket connection is followed.

- Priority: NOTICE (5)

- Cause: Client socket closed.

- Consequences: No data will be read from the socket.

- Recommended action: Reestablish socket connection.

[ldt_RcvDDN.c] Socket read timeout. Reestablish socket connection is followed.

- Priority: WARNING (4)

- Cause: Either client socket closed or no message coming from the client.

- Consequences: Socket will be closed, and reestablish socket connection is followed.

- Recommended action: Verify client socket is still connected.

[ldt_RcvDDN.c] Non-system error encountered during reading client socket.

- Priority: ALERT (1)

- Cause: Error in processing client's message.

- Consequences: The system will continue running until the maximum number of unknown non-system errors allowed is reached.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_RcvDDN.c] Error in processing received DDN. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Unable to process DDN message.

- Consequences: Socket connection will be closed and rcvddn process will be aborted. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Report this error to LPS maintenance staff to check the problem.

[ldt_RcvDDN.c] Error in checking LDT-ECS socket activity. Receive DDN process aborted.

- Priority: ALERT (1)

- Cause: Cannot select socket activity.

- Consequences: Socket connection will be closed and rcvddn process will be aborted. The process exits immediately with error code EXIT_FAILURE.

- Recommended action: Verify the socket connection is correct.

[ldt_RcvDDN.c] Error in disconnecting from database server.

- Priority: WARNING (4)

- Cause: Database problem.

- Consequences: Database transactions may be questionable.

- Recommended action: Report this error to LPS DBA.

[ldt_ReadSocket.c] Socket read exceeds maximum count. Socket closed.

- Priority: ALERT (1)

- Cause: Read out of boundary from socket buffer.

- Consequences: Socket is closed and the process exits immediately with error code LDT_ESOCKREAD.

- Recommended action: Verify number of bytes to read and the definition of MAXIMUM_SOCKET_READ_COUNT. Report this error to LPS maintenance staff.

[ldt_ReadSocket.c] Read error on message header.

- Priority: ALERT (1)

- Cause: Message header corrupted.

- Consequences: Socket is closed and the process exits immediately with error code LDT_ESOCKREAD.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ReadSocket.c] EOF with partial message header. Head 3 bytes read. Socket closed.

- Priority: ALERT (1)

- Cause: Message header corrupted.

- Consequences: Socket is closed and the process exits immediately with error code LDT_ESOCKREAD.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ReadSocket.c] Invalid message type.

- Priority: WARNING (4)

- Cause: Incorrect message type used.

- Consequences: Socket is closed and the process exits immediately with error code LDT_ESOCKREAD.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ReadSocket.c] Invalid message length.

- Priority: WARNING (4)

- Cause: Invalid message length.

- Consequences: Socket is closed and the process exits immediately with error code LDT_ESOCKREAD.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ReadSocket.c] msg_type = 3, msg_length = 40, Socket closed.

- Priority: ALERT (1)

- Cause: Invalid message type or length used in the message.

- Consequences: Socket is closed and the process exits immediately with error code LDT_ESOCKREAD.

- Recommended action: Verify the message type and message length and report this error to LPS maintenance staff.

[ldt_ReadSocket.c] malloc: Error allocating memory.

- Priority: ALERT (1)

- Cause: System problem.

- Consequences: No message is read from the socket and the process exits immediately with error code LDT_ESOCKREAD.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_ReadSocket.c] Read status = 0, msg_type = 11, msg_length = 40 bytes read.

- Priority: WARNING (4)

- Cause: No data read.

- Consequences: The process exits immediately with status code LDT_ESOCKEOF. The process continues to run.

- Recommended action: None.

[ldt_read_dan_information.c] <dan_file_name> open error.

- Priority: ALERT (1)

- Cause: Failed to open the DAN file.

- Consequences: return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_read_dan_information.c] <dan_file_name> read error.

- Priority: ALERT (1)

- Cause: Failed to read the DAN file.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_read_dan_information.c] <dan_file_name> stat error.

- Priority: ALERT (1)

- Cause: Stat system call returns error on the DAN file.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_save_messages.c] LDTS saves DAN messages in /tmp.

- Priority: WARNING (4)

- Cause: Cannot get the DAN file path set by the environment variable "LPS_DANFILE_PATH."

- Consequences: A default file path will be used and the process continues to run.

- Recommended action: Verify the environment variable "LPS_DANFILE_PATH."

[ldt_save_messages.c] LDTS saves DAA messages in /tmp.

- Priority: WARNING (4)

- Cause: Cannot get the DAN file path set by the environment variable "LPS_DANFILE_PATH."

- Consequences: A default file path will be used and the process continues to run.

- Recommended action: Verify the environment variable "LPS_DANFILE_PATH."

[ldt_save_messages.c] LDTS saves DDN messages in /tmp.

- Priority: WARNING (4)

- Cause: Cannot get the DAN file path set by the environment variable "LPS_DDNFILE_PATH."

- Consequences: A default file path will be used and the process continues to run.

- Recommended action: Verify the environment variable "LPS_DDNFILE_PATH."

[ldt_save_messages.c] LDTS saves authentication messages in /tmp.

- Priority: WARNING (4)

- Cause: Cannot get the DAN file path set by the environment variable "LPS_DDNFILE_PATH."

- Consequences: A default file path will be used and the process continues to run.

- Recommended action: Verify the environment variable "LPS_DDNFILE_PATH."

[ldt_save_messages.c] LDTS saves DDA messages in /tmp.

- Priority: WARNING (4)

- Cause: Cannot get the DAN file path set by the environment variable "LPS_DDNFILE_PATH."

- Consequences: A default file path will be used and the process continues to run.

- Recommended action: Verify the environment variable "LPS_DDNFILE_PATH."

[ldt_save_messages.c] Writing message file in error, message file = DAN_0000001111_001.msg.

- Priority: WARNING (4)

- Cause: Either system I/O error or designated file path is incorrect.

- Consequences: No LPS-ECS protocol message will be saved.

- Recommended action: Verify the file path and report this error to LPS maintenance staff.

[ldt_SelectSocket.c] Error in checking socket activity.

- Priority: WARNING (4)

- Cause: Socket did not set correctly.

- Consequences: The process exits immediately with error code LDT_IPC_ERROR.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] DAA timeout, send DAN again.

- Priority: WARNING (4)

- Cause: Receive DAA timed out.

- Consequences: Send DAN again.

- Recommended action: Monitor next Send DAN result.

[ldt_SendDAN.c] DAN transfer disabled.

- Priority: INFO (6)

- Cause: DAN transfer disabled by operator.

- Consequences: Update DAN state to DAN_SUSPEND.

- Recommended action: Make sure DAN transfer disabled is desired.

[ldt_SendDAN.c] DDA received successfully.

- Priority: NOTICE (5)

- Cause: DDA received successfully.

- Consequences: None.

- Recommended action: None.

[ldt_SendDAN.c] Error from lps_ParseOptions.

- Priority: ALERT (1)

- Cause: lps_ParseOptions failed to parse command arguments.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] Failed to get LPS configuration.

- • Priority: ALERT (1)

- • Cause: lps_db_GetLPSConfiguration failed to retrieve LPS configuration.

- • Consequences: Exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] Failed to retrieve DAN transfer state.

- • Priority: ALERT (1)

- • Cause: ldt_db_GetDANXferState failed to retrieve DAN transfer state.

- • Consequences: Database rollback, exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] ldt_CreateDAN failed.

- • Priority: ALERT (1)

- • Cause: ldt_CreateDAN failed to create a DAN.

- • Consequences: Database rollback, exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] ldt_db_CreateDANInfo failed.

- • Priority: ALERT (1)

- • Cause: ldt_db_CreateDANInfo failed to create an entry in LDT_DAN_information.

- • Consequences: Exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] ldt_db_UpdateDANInfo failed.

- • Priority: ALERT (1)

- • Cause: ldt_db_UpdateDANInfo failed to update LDT_DAN_information.

- • Consequences: Database rollback, exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] ldt_read_dan_information failed.

- • Priority: ALERT (1)

- Cause: ldt_read_dan_information failed to read the DAN file.

- Consequences: Database rollback, exit.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] ldt_SendDAN failed to get ldt_parms.

- Priority: ALERT (1)

- Cause: ldt_db_GetLDTParm failed to retrieve LDT_Parms.

- Consequences: Exit.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] ldt_start_client_n_clock failed.

- Priority: ALERT (1)

- Cause: ldt_start_client_n_clock failed to start client session.

- Consequences: Exit.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] Receive DDA failed.

- Priority: ALERT (1)

- Cause: ldt_danRcvDAA failed to receive the DDA.

- Consequences: Database rollback, exit.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] Save DAN file failed.

- Priority: WARNING (4)

- Cause: ldt_save_messages failed to log the DAN file.

- Consequences: Continue.

- Recommended action: Report this error to LPS maintenance staff

[ldt_SendDAN.c] Sent DAN exceeded <ldt_Parms.Ndan> times.

- Priority: ALERT (1)

- Cause: Maximum send attempted.

- Consequences: Database rollback, exit.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] Unable to initialize.

- Priority: ALERT (1).

- Cause: lps_ProcessInit failed to initialize ldt_SendDAN.

- Consequences: Exit.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SendDAN.c] Write DAN failed, will try again.

- Priority: WARNING (4)

- Cause: ldt_WriteSocket failed to write DAN to socket.

- Consequences: Sleep Tdan seconds and try sending again.

- Recommended action: Check network connection and watch the result of next try.

[ldt_send_validation_req.c] Unable to send validation request.

- Priority: ALERT (1)

- Cause: ldt_WriteSocket failed to write authorization request to socket.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SetSockOpts.c] Set client receiving socket blksize error.

- Priority: WARNING (4)

- Cause: Socket block size is incorrect.

- Consequences: Client socket buffer will not be set and the process exits immediately with error code LPS_FAILURE.

- Recommended action: Verify socket buffer size setting and report this error to LPS maintenance staff.

[ldt_SetSockOpts.c] Set client sending socket blksize error.

- Priority: WARNING (4)

- Cause: Invalid client socket size setting.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SetSockOpts.c] Error setting up nonblocking I/O.

- Priority: ALERT (1)

- Cause: System error or socket error.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS system administrator.

[ldt_SocketResponse.c] Error in reading a socket.

- Priority: WARNING (4)

- Cause: Socket is not setup correctly.

- Consequences: The process exits immediately with error code LDT_SOKRERR.

- Recommended action: Report this error to LPS system administrator.

[ldt_SocketResponse.c] EDC socket closed.

- Priority: WARNING (4)

- Cause: ECS socket is closed.

- Consequences: The process exits immediately with error code LDT_SOKRCLO. The socket connection will be reestablished later on.

- Recommended action: None.

[ldt_SocketResponse.c] Error in getting current EDC time.

- Priority: WARNING (4)

- Cause: System error or problem in converting current system time into NASA time format.

- Consequences: The socket will be closed and the process exits immediately with error code LDT_SOKRUNK.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_SocketResponse.c] A message was read successfully from a socket.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator that an incoming message is read successfully.

- Recommended action: None.

[ldt_start_client_n_clock.c] Client connection established.

- Priority: INFO (6)

- Cause: Client connection established.

- Consequences: Return LPS_SUCCESS.

- Recommended action: None.

[ldt_start_client_n_clock.c] Error to establish client session Will try again after 30 seconds...

- Priority: ERROR (3)

- Cause: ldt_create_client failed to establish client session.

- Consequences: Try to establish client session again.

- Recommended action: Monitor retry.

[ldt_start_client_n_clock.c] Failed to send authentication request.

- Priority: ALERT (1)

- Cause: ldt_establish_client failed to send authentication request.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_start_client_n_clock.c] Get time error.

- Priority: ALERT (1)

- Cause: ldt_GetCurrentEDCTime failed to get current time.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_start_client_n_clock.c] ldt_start_client_n_clock max connect attempts <attempts> failed.

- Priority: ALERT (1)

- Cause: Maximum attempts to connect ECS failed.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_start_client_n_clock.c] Socket connected.

- Priority: NOTICE (5)

- Cause: Connect to server successfully.

- Consequences: Continues.

- Recommended action: None.

[ldt_StopDDN.c] Terminate receive DDN process.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator.

- Recommended action: None.

[ldt_StopDDN.c] Unable to connect to database. Receive DDN process will not be terminated.

- Priority: WARNING (4)

- Cause: Database is down.

- Consequences: Rcvddn process will not be terminated. The process exits immediately with error code -1.

- Recommended action: Report this error to LPS DBA.

[ldt_StopDDN.c] Unable to get receive DDN process ID from database. Receive DDN process will not be terminated.

- Priority: WARNING (4)

- Cause: Either database is down or cannot access LDT_Process_Id table.

- Consequences: Rcvddn process will not be terminated. The process exits immediately with error code -1.

- Recommended action: Report this error to LPS DBA.

[ldt_StopDDN.c] Receive DDN process has been terminated successfully.

- Priority: NOTICE (5)

- Cause: None.

- Consequences: Notify the LPS operator.

- Recommended action: None.

[ldt_TermSendDAN.c] aborted on receiving signal <sig>.

- • Priority: ALERT (1)

- • Cause: Other termination signals received by ldt_SendDAN task.

- • Consequences: Disconnect database, exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_TermSendDAN.c] Error in disconnecting from database.

- • Priority: ALERT (1)

- • Cause: lps_db_Disconnect failed to disconnect from database.

- • Consequences: Exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_TermSendDAN.c] ldt_SendDAN terminated.

- • Priority: ALERT (1)

- • Cause: Signal SIGTERM received by ldt_SendDAN task.

- • Consequences: Disconnect database, exit.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_WriteSocket.c] Set up signal error.

- • Priority: WARNING (4)

- • Cause: System error.

- • Consequences: No signal handling function is set. The process will continue to run.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_WriteSocket.c] Catch broken pipe.

- • Priority: ALERT (1)

- • Cause: The process caught SIGPIPE signal.

- • Consequences: No data will be written and the process exits immediately with error code LDT_ESIGPIPE.

- • Recommended action: Report this error to LPS maintenance staff.

[ldt_WriteSocket.c] Write socket error.

- • Priority: ALERT (1)

- Cause: Unable to write to the socket.

- Consequences: The socket is closed and the process exits immediately with error code LDT_ECLOSE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_WriteSocket.c] Restore signal error.

- Priority: WARNING (4)

- Cause: System error.

- Consequences: No signal handling function is installed and the process will continue to run.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_write_dan_information.c] Directory name with no ending null byte.

- Priority: ALERT (1)

- Cause: Bad path name string.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[ldt_write_dan_information.c] Error open file <filename>.

- Priority: ALERT (1)

- Cause: Failed to open file to write DAN.

- Consequences: Return LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[lps_CaptureIsRunning.c] Default directory and filename used to search the PIDTempFile.

- Priority: INFO (6)

- Cause: Possibly an environment variable error.

- Consequences: The path of the PIDTempFile used to show capture activity is set to the default rather than the path set by the environment variable.

- Recommended action: Notify LPS maintenance staff of possible environment problem.

[lps_CaptureIsRunning.c] PID temp file does exist. Capture is running.

- Priority: INFO (6)

- Cause: Informative.

- Consequences: N/A.

- Recommended action: N/A.

[lps_db_Commit.pc] An ORACLE SQL error message.

- Priority: ALERT (1)

- Cause: Could not commit the transaction.

- Consequences: Database is not updated for requested changes.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_Connect.pc] An ORACLE SQL error message.

- Priority: ALERT (1)

- Cause: Could not connect to the ORACLE Database.

- Consequences: No access to the Database. an LPS_FAILURE returned.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_Disconnect.pc] An ORACLE SQL error message.

- Priority: ALERT (1)

- Cause: Could not perform the require functions (COMMIT or ROLLBACK) before disconnect to the database.

- Consequences: Some unwanted data my be missing or unwanted in the database.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_GetRDCInfo.pc] Not a valid contact sequence ID.

- Priority: ALERT (1)

- Cause: The input Contact Sequence Id does not exist.

- Consequences: Could not retrieve RDC data. Return an LPS_FAILURE.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_GetRDCInfo.pc] An ORACLE SQL error message.

- Priority: ALERT (1)

- Cause: An ORACLE error occurred.

- Consequences: Return an LPS_FAILURE. Could not retrieve RDC data.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_GetSubIntvInfo.pc] Invalid LPS time.

- Priority: ALERT (1)

- Cause: Either the MF_START_TIME or MF_STOP_TIME retrieved from the database is bad.

- Consequences: Return an LPS_FAILURE.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_GetSubIntvInfo.pc] Not a valid subinterval sequence ID.

- Priority: ALERT (1)

- Cause: The input Contact Sequence Id does not exist.

- Consequences: Could not retrieve Sub interval data. Return an LPS_FAILURE.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_GetSubIntvInfo.pc] An ORACLE SQL error message.

- Priority: ALERT (1)

- Cause: An ORACLE error occurred.

- Consequences: Could not retrieve Sub interval data. Return an LPS_FAILURE.

- Recommended action: Notify LPS Maintenance staff.

[lps_db_Rollback.pc] An ORACLE SQL error message.

- Priority: ALERT (1)

- Cause: An ORACLE error occurred.

- Consequences: Could not Roll back previous transactions.

- Recommended action: Notify LPS Maintenance staff.

[lps_GetPIDFileName.c] Temp path environment variable error. PID file path set to default.

- Priority: WARNING (4)

- Cause: Building a full path name for the PID temporary file has failed due to an error in an IRIX library function.

- Consequences: The PIDTempFile is placed in the default directory.

- Recommended action: Notify LPS maintenance staff for possible environment problems.

[lps_GetPIDFileName.c] PID filename set to default.

- Priority: WARNING (4)

- Cause: Building the filename for the PID temporary file has failed due to an error in an IRIX library function.

- Consequences: PID temporary file's name is set to the default.

- Recommended action: Notify LPS maintenance staff.

[lps_ParseFileName.c] No file path or name provided.

- Priority: ALERT (1)

- Cause: No file path or name provided.

- Consequences: Return an LPS_FAILURE to the calling routine.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ParseFileName.c] Either file path or name is not provided, filename = (Default File Name).

- Priority: ALERT (1)

- Cause: Either file path or name is not provided.

- Consequences: Use default Path or Filename, return an LPS_FAILURE to the calling routine.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ParseFileName.c] Unknown band file ID = (ID).

- Priority: ALERT (1)

- Cause: Bad File id.

- Consequences: Return an LPS_FAILURE to the calling routine.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ParseFileName.c] Unknown L0R file type = (File Type).

- Priority: ALERT (1)

- Cause: Bad File Type.

- Consequences: Return an LPS_FAILURE to the calling routine.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ParseFileName.c] Unknown segment number = (Seg Number), in L0R band file type.

- • Priority: WARNING (4)

- • Cause: The segment number is less than 1 or greater than 3.

- • Consequences: This is only an warning.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ParseFileName.c] Unknown browse file scene number = (Scene Number), in L0R file type.

- • Priority: WARNING (4)

- • Cause: The scene id is less than 1 or greater than 35.

- • Consequences: This is only an warning.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ParseFileName.c] Unknown L0R file type.

- • Priority: ALERT (1)

- • Cause: Catch all for all miscellaneous error on L0R file type.

- • Consequences: Return an LPS_FAILURE to the calling routine.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ParseOptions.c] Error at option -f.

- • Priority: ERROR (3)

- • Cause: Input Argument value for option -f is not valid.

- • Consequences: Return an LPS_FAILURE to the calling routine.

- • Recommended action: Verify the argument value for option -f and rerun.

[lps_ParseOptions.c] Error at option -c.

- • Priority: ERROR (3)

- • Cause: Input Argument value for option -c is not valid.

- • Consequences: Return an LPS_FAILURE to the calling routine.

- • Recommended action: Verify the argument value for option -c and rerun.

[lps_ParseOptions.c] Error at option -v.

- • Priority: ERROR (3)

- Cause: Input Argument value for option -v is not valid.

- Consequences: Return an LPS_FAILURE to the calling routine.

- Recommended action: Verify the argument value for option -v and rerun.

[lps_ParseOptions.c] Error at option -k.

- Priority: ERROR (3).

- Cause: Input Argument value for option -k is not valid.

- Consequences: Return an LPS_FAILURE to the calling routine.

- Recommended action: Verify the argument value for option -k and rerun.

[lps_ProcessChildStatus.c] Child exited abnormally with status = (Status).

- Priority: ALERT (1)

- Cause: Child exited abnormally.

- Consequences: Return an LPS_STAT_FAILURE to the calling routine.

- Recommended action: Check for scheduling argument error. Restart child.

[lps_ProcessChildStatus.c] Child exited normally without error.

- Priority: ALERT (1)

- Cause: Child exited normally without error.

- Consequences: Informative message, return an LPS_STAT_SUCCESS.

- Recommended action: No action is needed.

[lps_ProcessChildStatus.c] Child suspended by signal number = (Sig Num).

- Priority: ALERT (1)

- Cause: Child received a signal and exited abnormally.

- Consequences: Return an LPS_STAT_SUSPEND to the calling routine.

- Recommended action: Notify LPS maintenance staff.

[lps_ProcessChildStatus.c] Child terminated abnormally by signal number = (Sig Num) with core file generated.

- Priority: ALERT (1)

- Cause: Child received a signal and exited abnormally. A core file generated.

- Consequences: Return an LPS_STAT_Aborted to the calling routine.

- Recommended action: Save the core file and Notify LPS maintenance staff.

[lps_ProcessChildStatus.c] Child terminated abnormally by signal number = (Sig Num).

- Priority: ALERT (1)

- Cause: Child received a signal and exited abnormally.

- Consequences: Return an LPS_STAT_ABORTED to the calling routine.

- Recommended action: Notify LPS maintenance staff.

[lps_ProcessChildStatus.c] No child status reaped.

- Priority: ALERT (1)

- Cause: Unknown system error.

- Consequences: Return an LPS_STAT_UNKNOWN to the calling routine.

- Recommended action: Notify LPS maintenance staff, if problem is reproducible.

[lps_ProcessStartChild.c] No child process name provided.

- Priority: ALERT (1)

- Cause: The Child name is empty (NULL).

- Consequences: Return an LPS_EINVAL to the calling routine.

- Recommended action: Notify LPS maintenance staff.

[lps_RsrcAlloc.c] Error creating FIFO queue shared memory segment.

- Priority: ERROR (3)

- Cause: Could not create the Control Shared Memory for the FIFO Queues.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Clean all system resources, rerun the program.

[lps_RsrcAlloc.c] Error attaching to a FIFO queue shared memory segment.

- Priority: ERROR (3)

- Cause: Program (MACS) could not attached the Control Shared Memory for the FIFO Queues.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Clean all system resources, rerun the program.

[lps_RsrcAlloc.c] Error creating shared memory segment.

- Priority: ERROR (3)

- Cause: Program (MACS) could not create Share Memory Segments.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Clean all system resources, rerun the program.

[lps_RsrcAlloc.c] Error attaching to a shared memory segment.

- Priority: ERROR (3)

- Cause: Could not attach a shared memory segment to the calling program.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_RsrcAllocFIFO.c] Error creating an LPS FIFO queue.

- Priority: ERROR (3).

- Cause: Program (MACS) could not create an LPS FIFO Queue.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Clean all system resources, rerun the program.

[lps_RsrcDealloc.c] Error deallocating an LPS FIFO queue.

- Priority: ERROR (3)

- Cause: Program (MACS) could not deallocate an LPS FIFO Queue.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources, rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_RsrcDealloc.c] Error deallocating shared memory resources.

- Priority: ERROR (3)

- Cause: Program (MACS) could not deallocate an existing Shared Memory Segments.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources, rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_RsrcDealloc.c] Error deallocating FIFO queues shared resources control.

- Priority: ERROR (3)

- Cause: Program (MACS) could not deallocate the existing FIFO Queues shared resources control.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources, rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_RsrcDealloc.c] Program (MACS) could not deallocate the shared memory resources control.

- Priority: ERROR (3)

- Cause: Program (MACS) could not deallocate the shared Memory resources control.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources, rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_ShmCreate.c] Error creating shared memory segment.

- Priority: ERROR (3)

- Cause: Program (MACS) could not create Share Memory Segments.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources, rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_ShmCreate.c] Error attaching to a shared memory segment.

- Priority: ERROR (3)

- Cause: Could not attach a shared memory segment to the calling program.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_ShmCreateSemaphore.c] Error creating control semaphore set.

- Priority: ERROR (3)

- Cause: Program (MACS) could not create a semaphore set that will be used to synchronize the access of the shared memory.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources, rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_ShmCreateSemaphore.c] Error initializing control semaphores.

- Priority: ERROR (3)

- Cause: Program (MACS) could not set initial values for a control semaphore set.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources, rerun the program. If problem persists, Notify LPS maintenance staff.

[lps_ShmRemove.c] Error deallocating shared memory segments.

- Priority: ERROR (3)

- Cause: Program (MACS) could not remove one of the shared memory segment.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources. This is part of the shutdown cleaning up procedure.

[lps_ShmRemove.c] Error removing control semaphore set.

- Priority: ERROR (3)

- Cause: Program (MACS) could not remove one of the control semaphore set.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Use ipcrm to clean all system resources. This is part of the shutdown cleaning up procedure.

[lps_TimeAdd.c] The day may be out of range.

- Priority: ALERT (1)

- Cause: The time format is ETM+ time format (year = -1), and the day field is greater than 365 (or 366). The ETM+ time format will not be used after B1/R1.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeAdd.c] Different time systems cannot be added.

- Priority: ALERT (1)

- Cause: Input time structures are not using the same time format.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeCompare.c] Time systems are different.

- Priority: ALERT (1)

- Cause: Input time structures are not using the same time format.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeDiff.c] Time systems are different.

- Priority: ALERT (1)

- Cause: Input time structures are not using the same time format.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeDivide.c] Invalid base time used.

- Priority: ALERT (1)

- Cause: All base time (the divider) fields are zero.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeMultiply.c] WARNING: The day may be invalid.

- Priority: ALERT (1)

- Cause: The output time structure has the day field greater than 365 (or 366).

- Consequences: This is only a warning.

- Recommended action: No action needed.

[lps_TimeMultiply.c] Invalid input time used.

- Priority: ALERT (1)

- Cause: The number of time units is negative.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStringCheck.c] Day of year may be out of range.

- Priority: ALERT (1)

- Cause: The day field greater than 365 (or 366).

- Consequences: This is only a warning.

- Recommended action: No action needed.

[lps_TimeStringCheck.c] Hour: Invalid time value.

- Priority: ALERT (1)

- Cause: The time field greater than 23 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStringCheck.c] Minute or second: Invalid time value.

- Priority: ALERT (1)

- Cause: The minute or second field is greater than 59 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStringCheck.c] Millisecond: Invalid time value.

- Priority: ALERT (1)

- Cause: Invalid value found for millisecond field.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStringCheck.c] Sixteenth: Invalid time value.

- Priority: ALERT (1)

- Cause: Invalid value found for sixteenth field.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStringCheck.c] Year: Invalid time value.

- • Priority: ALERT (1)

- • Cause: Invalid year value found in the input time string.

- • Consequences: Return an LPS_FAILURE to the calling program.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStringCheck.c] Day of year: Invalid time value.

- • Priority: ALERT (1)

- • Cause: Invalid day of year value found in the input time string.

- • Consequences: Return an LPS_FAILURE to the calling program.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStructCheck.c] Second: Invalid time value.

- • Priority: ALERT (1)

- • Cause: The Second field is greater than 59 or less than 0.

- • Consequences: Return an LPS_FAILURE to the calling program.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStructCheck.c] Millisecond: Invalid time value.

- • Priority: ALERT (1)

- • Cause: The Millisecond field is greater than 1000 or less than 0.

- • Consequences: Return an LPS_FAILURE to the calling program.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStructCheck.c] Sixteenth: Invalid time value.

- • Priority: ALERT (1)

- • Cause: The Sixteenth field is greater than its MAX value (9999) or less than 0.

- • Consequences: Return an LPS_FAILURE to the calling program.

- • Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStructCheck.c] Year: Invalid time value.

- • Priority: ALERT (1)

- Cause: Invalid year field found in the input structure.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStructCheck.c] Day of year: Invalid time value.

- Priority: ALERT (1)

- Cause: Invalid day of year field found in the input structure.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStructCheck.c] Day of year may be out of range.

- Priority: ALERT (1)

- Cause: The day field is greater than 365 (or 366).

- Consequences: This is only a warning.

- Recommended action: No action is needed.

[lps_TimeStructCheck.c] Hour: Invalid time value.

- Priority: ALERT (1)

- Cause: The Hour field is greater than 23 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_TimeStructCheck.c] Minute: Invalid time value.

- Priority: ALERT (1)

- Cause: The Minute field is greater than 59 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ValidateRDCOutfileName.c] RDCS output filename is not provided.

- Priority: ALERT (1)

- Cause: The RDCS output filename (input argument) is empty (NULL).

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ValidateRDCOutfileName.c] RDCS captured filename year field is invalid.

- Priority: ALERT (1)

- Cause: The year value in the RDCS captured filename is greater than 99 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ValidateRDCOutfileName.c] RDCS captured filename day-of-year field is invalid.

- Priority: ALERT (1)

- Cause: The year value in the RDCS captured filename is greater than 365 (or 366) or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ValidateRDCOutfileName.c] RDCS captured filename hour field is invalid.

- Priority: ALERT (1)

- Cause: The hour value in the RDCS captured filename is greater than 23 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ValidateRDCOutfileName.c] RDCS captured filename minute field is invalid.

- Priority: ALERT (1)

- Cause: The minute value in the RDCS captured filename is greater than 59 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ValidateRDCOutfileName.c] RDCS captured filename second field is invalid.

- Priority: ALERT (1)

- Cause: The value of the second's field in the RDCS captured filename is greater than 59 or less than 0.

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[lps_ValidateRDCOutfileName.c] RDCS captured filename extension is invalid.

- Priority: ALERT (1)

- Cause: The RDCS captured filename extension is not "cpt."

- Consequences: Return an LPS_FAILURE to the calling program.

- Recommended action: Notify LPS maintenance staff, further analysis required.

[mac_db_GetRDCFilename.pc] Not a valid contact sequence ID.

- Priority: ALERT (1)

- Cause: Failed to get the raw data filename from the RDC_Acct table using the Contact Sequence Id.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_db_Initialize.pc] Could not login to the LPS database.

- Priority: ALERT (1)

- Cause: Failed to login to the LPS database.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_db_Initialize.pc] Could not logout from the LPS database.

- Priority: ALERT (1)

- Cause: Failed to logout from the LPS database.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_db_Initialize.pc] Error in forking rdc_updrdcacct failed.

- Priority: ALERT (1)

- Cause: Failed to fork the rdc_updrdcacct process.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_db_MetaDataGen.pc] Cannot generate metadata file header descriptor.

- Priority: ALERT (1)

- Cause: Unable to write metadata file header information to metadata file. The metadata generation application does not have write access to the storage device on which the metadata file is to be written.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS system administrator.

[mac_db_MetaDataGen.pc] Cannot generate metadata scene file information.

- Priority: ALERT (1)

- Cause: Refer to error message information for metadata generation subroutine mac_MetaDataGenScene.

- Consequences: Metadata generation will abort execution.

- Recommended action: Refer to error message information for metadata generation subroutine mac_MetaDataGenScene.

[mac_db_MetaDataGen.pc] Cannot generate metadata subinterval file information.

- Priority: ALERT (1)

- Cause: Refer to error message information for metadata generation subroutine mac_MetaDataGenSubIntv.

- Consequences: Metadata generation will abort execution.

- Recommended action: Refer to error message information for metadata generation subroutine mac_MetaDataGenSubIntv.

[mac_db_MetaDataGen.pc] Cannot get LPS configuration information.

- Priority: ALERT (1)

- Cause: The LPS database is unavailable to the metadata generation application or the LPS_Configuration database table has been corrupted.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS DBA.

[mac_db_MetaDataGen.pc] Cannot insert metadata file information into LPS database.

- Priority: ALERT (1)

- Cause: The LPS database is unavailable to the metadata generation application or the application does not have write access to db table LPS_File_Info.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS DBA.

[mac_db_MetaDataGen.pc] Unable to open metadata file.

- Priority: ALERT (1)

- Cause: The metadata generation application does not have write access to the storage device on which the metadata file is to be written.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS system administrator.

[mac_db_MetaDataGen.pc] Error message supplied by global routine lps_FileNameCreate.

- Priority: ALERT (1)

- Cause: Refer to error message information for global routine lps_FileNameCreate.

- Consequences: Metadata generation will abort execution.

- Recommended action: Refer to error message information for global routine lps_FileNameCreate.

[mac_db_MetaDataGenScene.pc] Unable to get metadata scene information.

- Priority: ALERT (1)

- Cause: Refer to error message information for metadata generation subroutine mac_db_MetaDataGetAScene.

- Consequences: Metadata generation will abort execution.

- Recommended action: Refer to error message information for metadata generation subroutine mac_db_MetaDataGetAScene.

[mac_db_MetaDataGenScene.pc] Unable to write scene information to metadata file.

- Priority: ALERT (1)

- Cause: The metadata generation application does not have write access to the storage device on which the metadata file is to be written.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS system administrator.

[mac_db_ShutdownLPS.pc] Cannot terminate the task, task_name, task_id.

- Priority: ALERT (1)

- Cause: Failed to terminate the LPS processes.

- Consequences: mac_lps exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_db_ShutdownLPS.pc] LPS cannot be shut down because raw data capture or L0R processing is in progress.

- Priority: ALERT (1)

- Cause: Failed to shutdown mac_lps.

- Consequences: mac_lps exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_db_ShutdownLPS.pc] Successfully shut down LPS.

- Priority: INFO (6)

- Cause: Shutdown the LPS system successfully.

- Consequences: None.

- Recommended action: None.

[mac_db_ShutdownLPS.pc] Terminated the task, task_name, task_id.

- Priority: INFO (6)

- Cause: Terminated the LPS processes.

- Consequences: None.

- Recommended action: None.

[mac_db_UnregL0RPID.pc] Cannot find the process ID.

- Priority: ALERT (1)

- Cause: Failed to delete the given process id from the database since it does not exist in the database.

- Consequences: Return with LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_LPS.c] Error on attempt to fork ldt_RcvDDN.

- Priority: ERROR (3)

- Cause: Forking ldt_rcvddn has failed.

- Consequences: mac_lps exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_LPS.c] Error on attempt to fork mac_AutoCapture.

- Priority: ERROR (3)

- Cause: Forking mac_autocapture has failed.

- Consequences: mac_lps exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_LPS.c] Error on attempt to fork mac_db_Initialize.

- Priority: ERROR (3)

- Cause: Forking mac_db_Initialize has failed.

- Consequences: mac_lps exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_LPS.c] Error on attempt to fork mac_ui_MainMenu.

- Priority: ERROR (3)

- Cause: Bringing up mac_ui_mainmenu has failed.

- Consequences: mac_lps exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_LPS.c] Error on initialize of LPS database.

- Priority: ERROR (3)

- Cause: Database initialization has failed.

- Consequences: mac_lps exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_LPS.c] LPS system successfully started.

- Priority: INFO (6)

- Cause: LPS system is running.

- Consequences: None.

- Recommended action: None.

[mac_MainAbortL0R.c] Cannot abort the L0R process.

- Priority: ALERT (1)

- Cause: Aborting the L0R processes failed.

- Consequences: Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainAbortL0R.c] L0R processing is aborted.

- Priority: ALERT (1)

- Cause: Successfully aborted the L0R processes.

- Consequences: Return with LPS_SUCCESS.

- Recommended action: None.

[mac_MainActivateChildProcesses.c] Error on call to lps_ProcessStartChild.

- Priority: ERROR (3)

- Cause: Forking L0R processes has failed.

- Consequences: mac_startl0r immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainCleanupL0R.c] Cannot deallocate resources.

- Priority: ALERT (1)

- Cause: Failed deallocating LPS resources.

- Consequences: Generate an error message and continue processing.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainCleanupL0R.c] Cannot unregister the L0R process ID.

- Priority: ALERT (1)

- Cause: Deleting L0R process id from the Process_Id table has failed.

- Consequences: Generate an error message and continue processing.

- Recommended action: Report this error to LPS DBA.

[mac_MainCleanupL0R.c] Cannot disconnect from the database.

- Priority: ALERT (1)

- Cause: Disconnecting from database has failed.

- Consequences: Generate an error message and continue processing.

- Recommended action: Report this error to LPS DBA.

[mac_MainInitL0R.c] Error on call to lps_db_Commit.

- Priority: ERROR (3)

- Cause: Failed to commit changes into the database.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_MainInitL0R.c] Error on call to lps_ProcessInit.

- Priority: ERROR (3)

- Cause: Failed to initialize L0R processes.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainInitL0R.c] Error on call to lps_RsrcAlloc.

- Priority: ERROR (3)

- Cause: Failed to allocate resources for the L0R processing.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainInitL0R.c] Error on call to mac_db_GetRDCFilename.

- Priority: ERROR (3)

- Cause: Getting the raw data capture filename for the contact has failed.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_MainInitL0R.c] Error on call to mac_db_RegL0RPID.

- Priority: ERROR (3)

- Cause: Registering the L0R process id has failed.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_MainRollbackL0R.c] Cannot close the output directory.

- Priority: ALERT (1)

- Cause: Failed to close the output file directory.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainRollbackL0R.c] Cannot delete the output directory.

- Priority: ALERT (1)

- Cause: Failed to delete the output file directory.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainRollbackL0R.c] Cannot delete the output file.

- Priority: ALERT (1)

- Cause: Failed to delete the output files.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainRollbackL0R.c] Cannot open the output file directory.

- Priority: ALERT (1)

- Cause: Failed to open the output file directory.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainRollbackL0R.c] Cannot roll back the database.

- Priority: ALERT (1)

- Cause: Cleaning up the database has failed.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mac_MainRollbackL0R.c] Successfully deleted output directory.

- Priority: ALERT (1)

- Cause: Deleting the output directory was successful.

- Consequences: None.

- Recommended action: None.

[mac_MainRollbackL0R.c] The directory (path) does not exist.

- Priority: ALERT (1)

- Cause: Failed to access the output file directory.

- Consequences: The process exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainShutdownL0R.c] L0R processing is terminated now.

- Priority: ALERT (1)

- Cause: mac_startl0r is terminated successfully.

- Consequences: None.

- Recommended action: None.

[mac_MainShutdownL0R.c] L0R processing is terminated unsuccessfully.

- Priority: ALERT (1)

- Cause: mac_MainAbortL0R, mac_MainWaitForL0R, or mac_MainRollbackL0R returned a failure.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Cannot activate the rdc_deleteRDCfile process.

- Priority: ALERT (1)

- Cause: Failed to activate the raw data file deleting process.

- Consequences: Generate an error message and continue L0R processing.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Cannot delete the RDC file.

- Priority: ALERT (1)

- Cause: Return status of deleting raw data file process is LPS_FAILURE.

- Consequences: Generate an error message and continue L0R processing.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Error on attempt to fork ldt_SendDAN.

- Priority: ERROR (3)

- Cause: Failed to fork ldt_senddan.

- Consequences: Abort and shutdown L0R processing.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Error on attempt to send DAN.

- Priority: ERROR (3)

- Cause: Failed to send DAN to LP DAAC.

- Consequences: Generate an error message and continue L0R processing.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Error on call to mac_MainActivateChildProcesses.

- Priority: ERROR (3)

- Cause: Failed to activate the L0R child processes.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Error on call to mac_MainInitL0R.

- Priority: ERROR (3)

- Cause: Failed to perform L0R process initialization.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Error on call to mac_MainWaitForL0R.

- Priority: ERROR (3)

- Cause: Failed to wait for L0R subsystems to complete.

- Consequences: Abort and shutdown L0R processing.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStartL0R.c] Error on call to mac_MetaDataGen.

- Priority: ERROR (3)

- Cause: Generating metadata file has failed.

- Consequences: Abort and shutdown L0R processing.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainStopL0R.c] L0R processing is aborted by the operator.

- Priority: ALERT (1)

- Cause: The operator stopped the L0R process.

- Consequences: Kills the L0R process.

- Recommended action: None.

[mac_MainStopL0R.c] Unable to terminate the L0R process.

- Priority: ALERT (1)

- Cause: Failed to kill the L0R process.

- Consequences: mac_stopl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MainWaitForL0R.c] Cannot get the termination status.

- Priority: ALERT (1)

- Cause: Caused due to an abnormal termination of L0R child processes.

- Consequences: mac_startl0r exits immediately with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mac_MetaDataGenFileHeadDesc.c] Unable to write metadata file header information to metadata file.

- Priority: ALERT (1)

- Cause: Unable to write metadata file header information to metadata file. The metadata generation application does not have write access to the storage device on which the metadata file is to be written.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS system administrator.

[mac_MetaDataGenSubIntv.c] Cannot get Bands information from LPS database.

- Priority: ALERT (1)

- Cause: Unable to retrieve metadata band information from the LPS database. Refer to error message information for metadata generation subroutine mac_db_MetaDataGetBandsInfo for more specific details.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS DBA.

[mac_MetaDataGenSubIntv.c] Cannot get LPS subinterval information.

- Priority: ALERT (1)

- Cause: Unable to retrieve metadata subinterval information from the LPS database.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS DBA.

[mac_MetaDataGenSubIntv.c] Cannot get metadata subinterval information.

- Priority: ALERT (1)

- Cause: Unable to retrieve metadata subinterval information from the LPS database. Refer to error message information for metadata generation subroutine mac_db_MetaDataGetSubIntv for more specific details.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS DBA.

[mac_MetaDataGenSubIntv.c] Cannot write subinterval information to metadata file.

- Priority: ALERT (1)

- Cause: The metadata generation application does not have write access to the storage device on which the metadata file is to be written.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS system administrator.

[mac_MetaDataWriteAScene.c] Unable to write scene information to metadata file.

- Priority: ALERT (1)

- Cause: The metadata generation application does not have write access to the storage device on which the metadata file is to be written.

- Consequences: Metadata generation will abort execution.

- Recommended action: Report this error to LPS system administrator.

[mfp_CalDefSwath.c] Unable to define TimecodeTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the TimecodeTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Failure to define fields in the swath for the calibration data file.

- Priority: WARNING (4)

- Cause: mfp_CalDefineAttr failed to define attributes. The exact cause of failure may be determined by checking the messages for mfp_CalDefineAttr.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to attach to a swath in the CAL file.

- Priority: WARNING (4)

- Cause: SWattach failed to attach to the appropriate swath in the CAL file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create cal_band_detector_data data field.

- Priority: WARNING (4)

- Cause: SWdefdatafield failed in defining the calibration band detector data field. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create cal_data_line_offset_lhs geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the calibration data line offset left hand side geolocation field. An invalid swath id or invalid.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create cal_data_line_offset_rhs geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the calibration data line offset right hand side geolocation field. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create detector_id geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the detector id geolocation field. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create scan_data_line_no geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the scan data line number geolocation field. An invalid swath id or invalid dimensions defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create scan_dir geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the scan direction geolocation field. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create scan_no geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the scan number geolocation field. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create scan_time geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the scan time geolocation field. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to create scan_timecode geolocation field.

- Priority: WARNING (4)

- Cause: SWdefgeofield failed in defining the scan timecode geolocation field. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define DetectorIdTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the DetectorIdTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define LhsOffsetTrack dimension.

- Priority: WARNING (4)

- Cause: Wdefdim failed in defining the LhsOffsetTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define PixelXTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the PixelXTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define RhsOffsetTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the RhsOffsetTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define ScanDirTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the ScanDirTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define ScanDirXTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the ScanDirXTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define ScanLineNoTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the ScanLineNoTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define ScanLineTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the ScanLineTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define ScanTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the ScanTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to define TimeTrack dimension.

- Priority: WARNING (4)

- Cause: SWdefdim failed in defining the TimeTrack dimension. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to detach from the appropriate swath in the CAL file.

- Priority: WARNING (4)

- Cause: SWdetach failed to detach from the appropriate swath in the CAL file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map DetectorIdTrack to ScanLineTrack.

- Priority: WARNING (4)

- Cause: SWdefdimmap failed in mapping DetectorIdTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map LhsOffsetTrack to ScanLineTrack.

- • Priority: WARNING (4)

- • Cause: SWdefdimmap failed in mapping LhsOffsetTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map RhsOffsetTrack to ScanLineTrack.

- • Priority: WARNING (4)

- • Cause: SWdefdimmap failed in mapping RhsOffsetTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map ScanDirTrack to ScanLineTrack.

- • Priority: WARNING (4)

- • Cause: SWdefdimmap failed in mapping ScanDirTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map ScanLineNoTrack to ScanLineTrack.

- • Priority: WARNING (4)

- • Cause: Wdefdimmap failed in mapping ScanLineNoTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map ScanTrack to ScanLineTrack.

- • Priority: WARNING (4)

- • Cause: SWdefdimmap failed in mapping ScanTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map TimecodeTrack to ScanLineTrack.

- Priority: WARNING (4)

- Cause: SWdefdimmap failed in mapping TimecodeTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDefSwath.c] Unable to map TimeTrack to ScanLineTrack.

- Priority: WARNING (4)

- Cause: SWdefdimmap failed in mapping TimeTrack to ScanLineTrack. An invalid swath id or invalid dimensions were defined for the field.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalDetachSwath.c] Unable to detach from the appropriate band's swath.

- Priority: WARNING (4)

- Cause: An invalid swath id.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalL0rExtract.c] Failure returned from mfp_CalWrtRemainingData.

- Priority: WARNING (4)

- Cause: mfp_CalWrtRemainingData routine returns a failure.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalL0rExtract.c] Failure from mfp_CalWriteFile.

- Priority: WARNING (4)

- Cause: mfp_CalWriteFile returns failure. The exact cause of failure may be determined by checking the messages for mfp_CalWriteFile.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to create the calibration data file for format 2.

- Priority: WARNING (4)

- Cause: lps_FileNameCreate failed in creating a filename for the calibration data file. The exact cause of failure may be determined by checking the messages for mfp_FileNameCreate.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to define swaths in the calibration file for format 2.

- Priority: WARNING (4)

- Cause: mfp_CalDefSwath returned a failure. The exact cause of failure may be determined by checking the messages for mfp_CalDefSwath.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to detach from swaths.

- Priority: WARNING (4)

- Cause: mfp_CalDetachSwath fails to detach from the appropriate band's swath. The exact cause of failure may be determined by checking the messages for mfp_CalDetachSwath.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to open the calibration file.

- Priority: WARNING (4)

- Cause: SWopen failed.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 1 band_detector_data.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 1's band and detector data to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 2 band_detector_data.

- • Priority: WARNING (4)

- • Cause: SWwritefield failed in writing band 2's band and detector data to the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 3 band_detector_data.

- • Priority: WARNING (4)

- • Cause: SWwritefield failed in writing band 3's band and detector data to the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 4 band_detector_data.

- • Priority: WARNING (4)

- • Cause: SWwritefield failed in writing band 4's band and detector data to the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 5 band_detector_data.

- • Priority: WARNING (4)

- • Cause: SWwritefield failed in writing band 5's band and detector data to the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 6 band_detector_data.

- • Priority: WARNING (4)

- • Cause: SWwritefield failed in writing band 6's band and detector data to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 6 data_line_offset_lhs.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 6 data line offset left hand side information to the calibration data file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 6 data_line_offset_rhs.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 6 data line offset right hand side information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 7 band_detector_data.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 7's band and detector data to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 7 data_line_offset_rhs.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 7 data line offset right hand side information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 8 band_detector_data.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 8's band and detector data to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band 8 data_line_offset_lhs.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 8 data line offset left hand side information to the calibration data file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band data_line_offset_lhs.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the band data line offset left hand side information to the calibration data file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write band data_line_offset_rhs.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the band's data line offset right hand side information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write data to calibration data file.

- Priority: WARNING (4)

- Cause: Failure returned from mfp_CalWrtFmt2.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write data to calibration data file.

- Priority: WARNING (4)

- Cause: Failure returned from the mfp_CalWrtFmt1 routine.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band 6 detector_id.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 6 detector id information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band 6 scan_data_line_no.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the scan data line number information for band 6 to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band 7 detector_id.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 7 detector id information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band 7 scan_data_line_no.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the scan data line number information for band 7 to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band 8 detector_id.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing band 8 detector id information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band 8 scan_data_line_no.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the scan data line number information for band 8 to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band detector_id.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the band's detector id information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the band scan_data_line_no.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the scan data line number information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the scan_dir.

- Priority: WARNING (4)

- Cause: SWwritefield failed in writing the scan direction information to the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the scan_no.

- • Priority: WARNING (4)

- • Cause: The SWwritefield failed in writing the scan number information to the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the scan_time.

- • Priority: WARNING (4)

- • Cause: SWwritefield failed in writing the scan time to the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unable to write the scan_timecode.

- • Priority: WARNING (4)

- • Cause: SWwritefield failed in writing the scan timecode information to the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_CalWriteFile.c] Unsuccessful close of the calibration file.

- • Priority: WARNING (4)

- • Cause: The SWclose failed in closing the calibration file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_db_InsertSubIntv.c] Cannot commit Sub_Intv inserts in the LPS database.

- • Priority: ALERT (1)

- • Cause: lps_db_Commit failed to commit database updates.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS DBA.

[mfp_db_InsertSubQa.c] Cannot commit MFP_Acct inserts in the LPS database.

- Priority: ALERT (1)

- Cause: lps_db_Commit failed to commit database updates.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_db_UpdateSubIntv.c] Cannot commit Sub_Intv updates to the LPS database.

- Priority: ALERT (1)

- Cause: lps_db_Commit failed to commit database updates.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_L0RFilesGen.c] EOL and line sync not found.

- Priority: ERROR (3)

- Cause: The major frame does not have EOL/LINE SYNC patterns. The exact cause of failure may be determined by checking the messages for mfp_VerifyMjf.

- Consequences: MFPS will return and continue to next major frame.

- Recommended action: NONE.

[mfp_L0RFilesGen.c] Error creating L0R output file Directory <create error>.

- Priority: WARNING (4)

- Cause: Failed to successfully create L0R file directory.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Invalid process ID.

- Priority: WARNING (4)

- Cause: The received process id is invalid.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS system administrator.

[mfp_L0RFilesGen.c] Unable to get current LPS processor number.

- Priority: WARNING (4)

- Cause: Failed to successfully get current LPS processor number.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Unable to get L0R output file disk path.

- Priority: WARNING (4)

- Cause: Failed to successfully get L0R output file disk path.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Unable to open the MSCD file.

- Priority: WARNING (4)

- Cause: Hopen failed in opening the MSCD file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Unable to retrieve RDCS accounting record information from database.

- Priority: WARNING (4).

- Cause: Failed to successfully retrieve RDCS accounting record information from database.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_L0RFilesGen.c] Unable to retrieve subinterval record information from database.

- Priority: WARNING (4)

- Cause: Failed to successfully retrieve subinterval record information from database.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_L0RFilesGen.c] Unsuccessful close of the calibration file.

- Priority: WARNING (4)

- Cause: SWclose failed in closing the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Unsuccessful close of the MSCD file.

- Priority: WARNING (4)

- Cause: Hclose failed in closing the MSCD file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Unsuccessful return from mfp_CalDetachSwath.

- Priority: WARNING (4)

- Cause: Failure returned from the mfp_CalDetachSwath.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE. The exact cause of failure may be determined by checking the messages for mfp_CalDetachSwath.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Unsuccessful return from mfp_CalL0rExtract.

- Priority: WARNING (4)

- Cause: Error occurred while extracting Calibration data from major frame. The exact cause of failure may be determined by checking the messages for mfp_CalL0rExtract.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_L0RFilesGen.c] Unsuccessful return from mfp_MscdL0rExtract.

- Priority: WARNING (4)

- Cause: Error occurred while extracting MSCD data from major frame. The exact cause of failure may be determined by checking the messages for mfp_MscdL0rExtract.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from lps_ParseOptions.

- Priority: ERROR (3)

- Cause: lps_ParseOptions failed to parse command line arguments. The exact cause of failure may be determined by checking the messages for mfp_ParseOptions.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainBandGen.

- Priority: ERROR (3)

- Cause: mfp_MainBandGen failed while extracting bands data and putting it to shared memory. The exact cause of failure may be determined by checking the messages for mfp_MainBandGen.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainCleanup.

- Priority: ERROR (3)

- Cause: mfp_MainInit failed while closing mfp. The exact cause of failure may be determined by checking the messages for mfp_MainCleanup.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainDeterminesub.

- Priority: ERROR (3)

- Cause: mfp_MainDeterminesub failed while processing subinterval changeover. The exact cause of failure may be determined by checking the messages for mfp_MainDeterminesub.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainEocNoMjf.

- Priority: ERROR (3)

- Cause: mfp_MainEocNoMjf failed while processing EOC condition without a valid major frame. The exact cause of failure may be determined by checking the messages for mfp_MainEocNoMjf.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainExtMjfInfo.

- Priority: ERROR (3)

- Cause: mfp_MainExtMjfInfo failed while processing a major frame.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainInit.

- Priority: ERROR (3)

- Cause: mfp_MainCleanup failed while setting up the environment for mfp. The exact cause of failure may be determined by checking the messages for mfp_MainInit.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainL0RFilesGen.

- Priority: ERROR (3)

- Cause: mfp_MainL0RFilesGen failed while writing data to the L0R files. The exact cause of failure may be determined by checking the messages for mfp_MainL0RFilesGen.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainPcdStatusProc.

- Priority: ERROR (3)

- Cause: mfp_MainPcdStatusProc failed while extracting PCD and status data from VCDUs. The exact cause of failure may be determined by checking the messages for mfp_MainPcdStatusProc.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainProcNoMjf.

- Priority: ERROR (3)

- Cause: mfp_MainProcNoMjf failed while processing tossed VCDUs. The exact cause of failure may be determined by checking the messages for mfp_MainProcNoMjf.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainQASubGen.

- Priority: ERROR (3)

- Cause: mfp_MainQASubGen failed while inserting data to the database. The exact cause of failure may be determined by checking the messages for mfp_MainQASubGen.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainRelShmBlk.

- Priority: ERROR (3)

- Cause: mfp_MainRelShmBlk failed while releasing shared memory blocks. The exact cause of failure may be determined by checking the messages for mfp_MainRelShmBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error from mfp_MainValidateMjf.

- Priority: ERROR (3)

- Cause: mfp_MainValidateMjf failed during search for a valid major frame. The exact cause of failure may be determined by checking the messages for mfp_MainValidateMjf.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_Main.c] Error writing data record to MFPS trouble file, no more data record will be written to this file.

- Priority: ERROR (3)

- Cause: Could not write to the trouble file. Probable cause is file has grown too big.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainAdd2Set.c] Failure in mfp_GetAvInfo.

- Priority: EMERGENCY (0)

- Cause: mfp_MainGetAvInfo failed to get a block of shared memory for writing band data. Probable cause is system shared memory. The exact cause of failure may be determined by checking the messages for mfp_MainGetAvInfo.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainBandGen.c] Error from lps_ShmGetWrBlk.

- Priority: CRITICAL (2)

- Cause: lps_ShmGetWrBlk failed to get a block of shared memory for writing band data. Probable cause is system shared memory. The exact cause of failure may be determined by checking the messages for mfp_ShmGetWrBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainBandGen.c] Error from lps_ShmPutWrBlk.

- Priority: CRITICAL (2)

- Cause: lps_ShmPutWrBlk failed to return a block of shared memory after writing band data. Probable cause is system shared memory. The exact cause of failure may be determined by checking the messages for mfp_ShmPutWrBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainBandGen.c] Error from mfp_MainFillMissMjfs.

- Priority: ERROR (3)

- Cause: mfp_MainFillMissMjfs failed while making up the missing major frames with fill data. The exact cause of failure may be determined by checking the messages for mfp_MainFillMissMjfs.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainChkMissing.c] Same counter values in both CADUs.

- Priority: ERROR (3)

- Cause: Same minor frame count and VCDU count values for two adjacent VCDUs.

- Consequences: The later VCDU may be discarded.

- Recommended action: None.

[mfp_MainCleanup.c] Failed to detach from IDPS shared memory.

- Priority: ERROR (3)

- Cause: lps_ShmClose failed to detach from PCDS shared memory. The exact cause of failure may be determined by checking the messages for mfp_ShmClose.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainCleanup.c] Failed to detach from PCDS shared memory.

- Priority: ERROR (3)

- Cause: lps_ShmClose failed to detach from PCDS shared memory. The exact cause of failure may be determined by checking the messages for mfp_ShmClose.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainCleanup.c] Failed to detach from RDPS shared memory.

- Priority: ERROR (3)

- Cause: lps_ShmClose failed to detach from RDPS shared memory. The exact cause of failure may be determined by checking the messages for mfp_ShmClose.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainCleanup.c] Failed to disconnect from the database.

- Priority: ERROR (3)

- Cause: mfp_lps_db_Disconnect failed to disconnect from the LPS database. The exact cause of failure may be determined by checking the messages for mfp_lps_db_Disconnect.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainCleanup.c] Unsuccessful close of the calibration file.

- Priority: WARNING (4)

- Cause: SWclose failed to close the calibration file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainCleanup.c] Unsuccessful close of the MSCD file.

- Priority: WARNING (4)

- Cause: Hclose failed to close the MSCD file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainCleanup.c] Unsuccessful return from mfp_CalDetachSwath.

- Priority: WARNING (4)

- Cause: mfp_CalDetachSwath failed to detach from swath. The exact cause of failure may be determined by checking the messages for mfp_CalDetachSwath.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainDetermineSub.c] Error attempting to insert subinterval into database.

- Priority: EMERGENCY (0)

- Cause: mfp_db_InsertSubIntv failed to insert a record into the LPS database. The exact cause of failure may be determined by checking the messages for mfp_db_InsertSubIntv.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainDetermineSub.c] Error attempting to update LPS database.

- Priority: EMERGENCY (0)

- Cause: mfp_db_UpdateSubIntv failed to update LPS database. The exact cause of failure may be determined by checking the messages for mfp_db_UpdateSubIntv.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainDetermineTimeRange.c] Error in calculating time difference.

- Priority: EMERGENCY (0)

- Cause: lps_TimeDiff failed to compute difference between two time values. The exact cause of failure may be determined by checking the messages for lps_TimeDiff.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainDetermineTimeRange.c] Error in time comparison.

- Priority: EMERGENCY (0)

- Cause: lps_TimeCompare failed to compare two time values. The exact cause of failure may be determined by checking the messages for lps_TimeCompare.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainDetermineTimeRange.c] Error in time division.

- Priority: EMERGENCY (0)

- Cause: lps_TimeDivide failed to divide a time value into a given number. The exact cause of failure may be determined by checking the messages for lps_TimeDivide.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainEstimateTime.c] An error occurred adding two time structures.

- Priority: WARNING (4)

- Cause: The exact cause of failure may be determined by checking the messages for lps_.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff

[mfp_MainEstimateTime.c] An error occurred multiplying a time structure.

- Priority: WARNING (4)

- Cause: lps_TimeMultiply failed while multiplying a time value. The exact cause of failure may be determined by checking the messages for lps_TimeMultiply.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainExtractTime.c] Major frame time condense error.

- Priority: WARNING (4)

- Cause: mfp_CondenseDataGrp failed while reducing 40 bits to a single bit. The exact cause of failure may be determined by checking the messages for mfp_CondenseDataGrp.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainFillMissMjfs.c] Error from lps_ShmGetWrBlk.

- Priority: CRITICAL (2)

- Cause: lps_ShmGetWrBlk failed to get a block of shared memory for writing band data. The exact cause of failure may be determined by checking the messages for lps_ShmGetWrBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainFillMissMjfs.c] Error from lps_ShmPutWrBlk.

- Priority: CRITICAL (2)

- Cause: lps_ShmPutWrBlk failed to return a block of shared memory after writing band data. The exact cause of failure may be determined by checking the messages for lps_ShmPutWrBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainFillMissMjfs.c] Error from lps_TimeAdd.

- Priority: ERROR (3)

- Cause: lps_TimeAdd failed to add two time values. The exact cause of failure may be determined by checking the messages for lps_TimeAdd.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainFindMjfStart.c] Failure in mfp_MainGetAvInfo.

- Priority: EMERGENCY (0)

- Cause: mfp_MainGetAvInfo failed to get a block of shared memory for reading RDPS output. The exact cause of failure may be determined by checking the messages for mfp_MainGetAvInfo.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainGetAvInfo.c] Error getting next RDPS shared memory block.

- Priority: WARNING (4)

- Cause: lps_ShmGetRdBlk failed to get a block of shared memory for writing band data. The exact cause of failure may be determined by checking the messages for lps_ShmGetRdBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainGetAvInfo.c] No more room for MFPS to store shared memory blocks.

- Priority: WARNING (4)

- Cause: The internal array mfp_shmAddList overflowed, due to errors in other units.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainIdentifyMjfSet.c] Failure due to abnormal conditions.

- Priority: EMERGENCY (0)

- Cause: Some unknown error occurred due to which CADUs could not be retrieved from shared memory.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainIdentifyMjfSet.c] Failure in mfp_MainFindMjfStart.

- Priority: EMERGENCY (0)

- Cause: mfp_MainFindMjfStart failed to locate the start of a major frame. The exact cause of failure may be determined by checking the messages for mfp_MainFindMjfStart.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainInit.c] Error writing the header record size to MFPS trouble file.

- Priority: ERROR (3)

- Cause: write call failed to write to MFPS trouble file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainInit.c] Failed to attach to the MFP-IDP shared memory.

- Priority: ERROR (3)

- Cause: lps_ShmOpen failed to attach to MFP-IDP shared memory. The exact cause of failure may be determined by checking the messages for lps_ShmOpen.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainInit.c] Failed to attach to the MFP-PCD shared memory.

- Priority: ERROR (3)

- Cause: lps_ShmOpen failed to attach to MFP-PCD shared memory. The exact cause of failure may be determined by checking the messages for lps_ShmOpen.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainInit.c] Failed to attach to the RDP-MFP shared memory.

- Priority: ERROR (3)

- Cause: lps_ShmOpen failed to attach to RDP-MFP shared memory.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE. The exact cause of failure may be determined by checking the messages for lps_ShmOpen.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainInit.c] Failed to create/open MFPS trouble file.

- Priority: ERROR (3)

- Cause: open call failed to open MFPS trouble file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainInit.c] Failed to extract the actual stop time from the database.

- Priority: ERROR (3)

- Cause: mfp_db_ExtractStopTime failed to retrieve actual stop time from LPS database. The exact cause of failure may be determined by checking the messages for lps_db_ExtractStopTime.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainInit.c] Failed to initialize the MFPS process.

- Priority: ERROR (3)

- Cause: lps_ProcessInit failed. The exact cause of failure may be determined by checking the messages for lps_ProcessInit.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainInit.c] Failed to load MFPS parameters into MFPS storage.

- Priority: ERROR (3)

- Cause: mfp_db_GetParms database call failed. The exact cause of failure may be determined by checking the messages for mfp_db_GetParms.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainInit.c] Failed to retrieve LPS configuration information from the LPS database.

- Priority: ERROR (3)

- Cause: lps_db_GetLPSConfiguration call failed. The exact cause of failure may be determined by checking the messages for lps_db_GetLPSConfiguration.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainInit.c] Failure generating earliest data time.

- Priority: ERROR (3)

- Cause: lps_TimeDiff failed to compute earliest data time. The exact cause of failure may be determined by checking the messages for lps_TimeDiff.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainPcdStatusProc.c] Error getting next MFP-PCD shared memory block.

- Priority: WARNING (4)

- Cause: lps_ShmGetRdBlk failed to get a block of shared memory for writing PCD data. The exact cause of failure may be determined by checking the messages for lps_ShmGetRdBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainPcdStatusProc.c] Error returning MFP-PCD shared memory block.

- Priority: WARNING (4)

- Cause: lps_ShmPutWrBlk failed to return a block of shared memory after writing PCD data. The exact cause of failure may be determined by checking the messages for lps_ShmPutRdBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainQASubGen.c] Error inserting CAL file information into database.

- Priority: ERROR (3)

- Cause: lps_db_InsertFileInfo failed to insert CAL file data into LPS database.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainQASubGen.c] Error inserting MSCD file information into database.

- Priority: ERROR (3)

- Cause: lps_db_InsertFileInfo failed to insert MSCD file data into LPS database.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainQASubGen.c] Error inserting subinterval QA information into database.

- Priority: ERROR (3)

- Cause: mfp_db_InsertSubQa failed to insert data into LPS database.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[mfp_MainRelShmBlk.c] Failure from lps_ShmPutRdBlk.

- Priority: ERROR (3)

- Cause: lps_ShmPutWrBlk failed to return a block of shared memory after reading VCDU data. The exact cause of failure may be determined by checking the messages for lps_ShmPutRdBlk.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainValidateMjf.c] Failure in mfp_MainIdentifyMjfSet.

- Priority: EMERGENCY (0)

- Cause: mfp_MainIdentifyMjfSet failed to identify VCDUs for a major frame. The exact cause of failure may be determined by checking the messages for mfp_MainIdentifyMjfSet.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainValidateTime.c] Error in time comparison with earliest time.

- Priority: WARNING (4)

- Cause: lps_TimeCompare failed in comparing two time values. The exact cause of failure may be determined by checking the messages for lps_TimeCompare.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainValidateTime.c] Error in time comparison with latest time.

- Priority: WARNING (4)

- Cause: lps_TimeCompare failed in comparing two time values.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE. The exact cause of failure may be determined by checking the messages for lps_TimeCompare.

- Recommended action: Report this error to LPS maintenance staff.

[mfp_MainValidateTime.c] Major frame time or estimated time is out of range.

- Priority: EMERGENCY (0)

- Cause: Major frame time is out of limits.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_MainValidateTime.c] Major frame time or previous time is out of range.

- • Priority: EMERGENCY (0)

- • Cause: Major frame time is out of limits.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_MainValidateTime.c] The major frame time is identical to previous time.

- • Priority: WARNING (4)

- • Cause: The current major frame time is identical to previous time.

- • Consequences: None.

- • Recommended action: None.

[mfp_MscdL0rExtract.c] Error in HDF interlace function.

- • Priority: WARNING (4)

- • Cause: VSsetinterlace failed in defining the method of writing the data to the file.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_MscdL0rExtract.c] Unable to create MSCD HDF Header variables.

- • Priority: WARNING (4)

- • Cause: VSfdefine failed in defining the fields for the MSCD Vdata.

- • Consequences: Data will not be correctly written to the file. MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_MscdL0rExtract.c] Unable to set the MSCD HDF header fields.

- • Priority: WARNING (4)

- • Cause: VSsetfields failed in setting the fields in the MSCD Vdata.

- • Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- • Recommended action: Report this error to LPS maintenance staff.

[mfp_MscdWriteFile.c] unable to write to the MSCD HDF file.

- Priority: WARNING (4)

- Cause: VSwrite failed in writing the MSCD data buffer to the MSCD file.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[[mfp_CalDefSwath.c] Unable to create a swath for the calibration file.

- Priority: WARNING (4)

- Cause: SWcreate failed to create swath for a band.

- Consequences: MFPS exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_db_ExtractStopTime.pc] An ORACLE SQL error message.

- Priority: ERROR (3)

- Cause: The failure to extract stop time from rdc_acct table.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_db_GetFirstWrsScene.pc] An ORACLE SQL error message.

- Priority: ERROR (3)

- Cause: Unable to retrieve the nearest WRS scene center from the database.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_db_GetNextWrsScene.pc] An ORACLE SQL error message.

- Priority: ERROR (3)

- Cause: Unable to retrieve the next WRS scene center from the database.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_db_ReportSceneInfo.pc] An ORACLE SQL error message.

- Priority: ERROR (3)

- Cause: Failed to insert into PCD_SCENE_ACCT table.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_db_StoreAcctInfo.pc] An ORACLE SQL error message.

- Priority: ERROR (3)

- Cause: Failed to insert into PCD_ACCT table.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_db_StoreBandsPresent.pc] An ORACLE SQL error message.

- Priority: ERROR (3)

- Cause: Failed to insert into BANDS_PRESENT table.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_db_StoreMjfAcct.pc] An ORACLE SQL error message.

- Priority: ERROR (3)

- Cause: Failed to insert into PCD_MJF_ACCT table.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_MainLocateSyncPattern.c]: No PCD word buffer values.

- Priority: CRITICAL (2)

- Cause: There were no PCD data words in the input buffer.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_Main.c] Error from lps_ParseOptions.

- Priority: ALERT (1)

- Cause: Input argument value is not valid.

- Consequences: pcd exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_Main.c] Error from pcd_db_ReportSceneInfo.

- Priority: ERROR (3)

- Cause: Unable to insert the scene basis record into the PCD_Scene_Acct database table.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_Main.c] Error from pcd_MainBuildCycle.

- Priority: ERROR (3)

- Cause: Error from the module pcd_MainBuildCycle.

- Consequences: pcd exits after the cleanup with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_Main.c] Error from pcd_MainCleanUp.

- Priority: ERROR (3)

- Cause: Error from the module pcd_MainCleanUp.

- Consequences: pcd exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_Main.c] Error from pcd_MainCreatePcdFile.

- Priority: ERROR (3)

- Cause: Error from the module pcd_MainCreatePcdFile.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_Main.c] Error from pcd_MainDeterminePcdWord.

- Priority: ERROR (3)

- Cause: Error from the module pcd_MainDeterminePcdWord.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_Main.c] Error from pcd_MainDetermineScenes.

- Priority: ERROR (3)

- Cause: Error from the module pcd_MainDetermineScenes.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_Main.c] Error from pcd_MainExtractCycleInfo.

- Priority: ERROR (3)

- Cause: Unable to insert bands present information into the Bands_Present database table.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_Main.c] Error from pcd_MainInit.

- Priority: ERROR (3)

- Cause: Unable to initialize the PCDS software for the normal processing.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainBuildCycle.c] Call to pcd_MainBuildMajorFrames failed.

- Priority: CRITICAL (2)

- Cause: Building of the major Frames aborted due to a failure to extract word 72 information.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainBuildCycle.c] Call to pcd_MainBuildMinorFrames failed.

- Priority: CRITICAL (2)

- Cause: Building of the minor frames aborted due to the frame sync software initialization failure.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainBuildCycle.c] Call to pcd_MainConstructCycles failed.

- Priority: CRITICAL (2)

- Cause: The construction of the PCD cycles aborted due to an error in PCD cycle time.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainBuildMajorFrame.c] Call to pcd_MainProcMajorFrame failed.

- Priority: CRITICAL (2)

- Cause: The processing of the major frame information aborted due to a failure to extract word 72 information.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainBuildMajorFrame.c] Call to pcd_MainProcMajorFrame failed.

- Priority: CRITICAL (2)

- Cause: The processing of the major frame information aborted due tot a failure to extract word 72 information.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainBuildMinorFrame.c] End of contact period flag on and fs_terminate passed back LPS_FS_FAILURE.

- Priority: CRITICAL (2)

- Cause: The unsuccessful termination of the frame sync process at the end of the contact period.

- Consequences: The PCD process will continue to run.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainBuildMinorFrame.c] fs_initialize has passed back LPS_FS_FAILURE.

- Priority: CRITICAL (2)

- Cause: The building of the PCD minor frames aborted due to the frame sync software initialization failure.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainCleanUp.c] Failed to close the PCD-IDP FIFO channel.

- Priority: ERROR (3)

- Cause: Unable to close the PCD-IDP FIFO channel.

- Consequences: pcd exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainCleanUp.c] Failed to detach from the MFP-PCD shared memory area.

- Priority: ERROR (3)

- Cause: Unable to detach from the MFP-PCD shared memory area.

- Consequences: pcd exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainCleanUp.c] Failed to disconnect from the database.

- Priority: ERROR (3)

- Cause: Unable to disconnect from the database.

- Consequences: pcd exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_MainComputeLat.c] Cannot take inverse of attitude matrix!

- Priority: ALERT (1)

- Cause: The transformation from spacecraft body to GCI failed because the attitude matrix from the Euler parameters is singular.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff and make sure that the Euler parameters are correct.

[pcd_MainComputeLat.c] No real solutions for the quadratic equation!

- Priority: ALERT (1)

- Cause: (B*B – A*C) in a quadratic equation is less than zero and there is no real solutions for the quadratic equation.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainComputeLookPoint.c] Cannot calculate time pcd_ut1Correction!

- Priority: ALERT (1)

- Cause: The time pcd_ut1Correction cannot be computed because the unit pcd_db_GetTimeOffse returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainComputeLookPoint.c] Error in computing geodetic latitude!

- Priority: ALERT (1)

- Cause: Computation of geodetic latitude fails because called unit pcd_MainComputeLat returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainComputePosition.c] Failed to compute look point latitude and longitude!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainComputeLookPoint returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainComputeSceneCorners.c] Failed to compute corner latitude and longitude!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainComputeLookPoint returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainConstructCycles.c] Error in PCD cycle time.

- Priority: ERROR (3)

- Cause: Building a cycle from an array of major frames has failed due to an error in the time field of a major frame zero which was to be the first major frame in the cycle and to provide the cycle time. This error message will only be written if the parameter PCD_VERIFY_TIME_OPTION has been defaulted to a value less than zero in pcd_Defines.h.

- Consequences: This unit will return to the calling program with an error status and the unit will stop processing the array of major frames in the current batch.

- Recommended action: The error in the time field of the major frame should be corrected or the frame should not be processed. The parameter PCD_VERIFY_TIME_OPTION in pcd_Defines.h could be defaulted to zero and this unit and all related units recompiled and a new executable built. This will Cause: the program to ignore the frame with the invalid time and look for the next major frame zero with a valid time. This will result in the loss of one cycle. If the parameter PCD_VERIFY_TIME_OPTION is defaulted to a value greater than zero, the program will estimate a cycle time if a previous valid cycle time exists.

[pcd_MainCreatePcdFile.c] Error from lps_db_InsertFileInfo.

- Priority: ERROR (3)

- Cause: An error occurred while trying to insert the new PCD filename into the database.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Check that current PCD filename does not already exist in database.

[pcd_MainCreatePcdFile.c] Error from pcd_MainUpdateSubIntv.

- Priority: ERROR (3)

- Cause: Software was unable create the new PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainCreatePcdFile.c] Error from pcd_MainWriteCycleToFile.

- Priority: ERROR (3)

- Cause: Software was unable to write to the PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainCreatePcdFile.c] Unsuccessful close of the PCD file.

- Priority: ERROR (3)

- Cause: Software was unable to close the PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDeterminePcdWord.c] Error in attempting to read block in shared memory.

- Priority: CRITICAL (2)

- Cause: There is no MFPS data in the shared memory (IPC mechanism).

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDeterminePcdWord.c]: Attempt to release read block from shared memory failed.

- Priority: WARNING (4)

- Cause: lps_ShmPutRdBlk failed to release read block from shared memory.

- Consequences: Unknown.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDeterminePcdWord.c]: Replicated PCD data words not successfully extracted.

- Priority: WARNING (4)

- Cause: pcd_MainExtractWords failed. No PCD byte words were extracted from the input byte stream from shared memory.

- Consequences: Cannot process PCD data.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetermineScenes.c] Failed to compute pcd position!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainComputePosition returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetermineScenes.c] Failed to determine pcd scene description!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainDetSceneDescription returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetermineScenes.c] Failed to extract pcd scene data!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainExtractSceneParms returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetermineScenes.c] Failed to send end of subinterval message!

- Priority: ALERT (1)

- Cause: The return code of the called unit lps_FIFOSend is not LPS_SUCCESS.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetermineScenes.c] Insufficient data in subinterval with subinterval id = id.

- Priority: WARNING (4)

- Cause: The called unit pcd_MainExtractSceneParms returns LPS_WAIT and pcd_subIntvChangedFlag is LPS_TRUE.

- Consequences: Unit pcd_MainDetermineScenes continues to run even insufficient data in the previous subinterval.

- Recommended action: No action is needed.

[pcd_MainDetermineScenes.c] Waiting for next pcd cycle!

- Priority: INFO (6)

- Cause: The called unit pcd_MainExtractSceneParms returns LPS_WAIT and pcd_subIntvChangedFlag is PCD_FALSE.

- Consequences: Unit pcd_MainDetermineScenes continues to run and the called unit pcd_MainExtractSceneParms reads in another 2 cycles of pcd data.

- Recommended action: No action is needed.

[pcd_MainDetSceneDescription.c] Failed to compute actual scene corners!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainComputeSceneCorners returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetSceneDescription.c] Failed to compute horizontal display shift!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainComputeHds returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetSceneDescription.c] Failed to get first WRS scene data!

- Priority: ALERT (1)

- Cause: The called unit pcd_db_GetFirstWrsScene returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetSceneDescription.c] Failed to get next WRS scene data!

- Priority: ALERT (1)

- Cause: The called unit pcd_db_GetNextWrsScene returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainDetSceneDescription.c] Failed to report scene description to IDPS!

- Priority: ALERT (1)

- Cause: The called unit pcd_MainReportScenes returns LPS_FAILURE.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainExitHandler.c] Error from pcd_MainCleanUp.

- Priority: ERROR (3)

- Cause: Error from the module pcd_MainCleanUp.

- Consequences: pcd exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainExtractMjfZeroWord72.c] pcd_db_ExtractStopTime failed to extract ACTUAL_STOP_TIME from the RDC_ACCT table.

- Priority: CRITICAL (2)

- Cause: The failure to extract ACTUAL_STOP_TIME from the RDC_ACCT table.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainExtractWord72.c] pcd_MainExtractMjfZeroWord72 failed to extract word 72 information from major frame 0.

- Priority: CRITICAL (2)

- Cause: The failure to extract word 72 information from major frame 0.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainExtractWords.c]: %d failed majority votes (TH = %d).

- Priority: INFO (6)

- Cause: There was a majority vote failure of PCD data words from the MFPS input of PCD triplicated data words.

- Consequences: None.

- Recommended action: This should be noted if this message is displayed throughout the run and reported to LPS maintenance staff.

[pcd_MainExtractWords.c]: Locate Sync Patterns failure.

- Priority: WARNING (4)

- Cause: Unable to locate the sync patterns needed to pull out the PCD data words from the MFPS input data.

- Consequences: Cannot process PCD data.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainFileSetup.c] Error HDF VSsetfields function.

- Priority: ERROR (3)

- Cause: Software was unable to establish a read and write access to the Vdata fields in the new PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainFileSetup.c] Error in HDF interlace function.

- Priority: ERROR (3)

- Cause: Software was unable to set the interlace type for the new PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainFileSetup.c] Unable to define the new Vdata fields.

- Priority: ERROR (3)

- Cause: Software was unable to create the new Vdata fields in the new PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainFormatWords.c]: %d missing PCD data words (TH = %d).

- Priority: INFO (6)

- Cause: At designated intervals, the number of missing PCD data words is displayed.

- Consequences: None.

- Recommended action: This should be noted if this message is displayed throughout the run and reported to LPS maintenance staff.

[pcd_MainInit.c] Error from lps_ProcessInit.

- Priority: ALERT (1)

- Cause: Unable to initialize the processing environment for LPS processes.

- Consequences: pcd exits immediately with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainInit.c] Failed to attach to the MFP-PCD shared memory area.

- Priority: ERROR (3)

- Cause: Unable to attach to the MFP-PCD shared memory area.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainInit.c] Failed to open the PCD-IDP FIFO channel.

- Priority: ERROR (3)

- Cause: Unable to open the PCD-IDP FIFO channel.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainInit.c] Failed to retrieve LPS configuration information from the database.

- Priority: ERROR (3)

- Cause: Unable to retrieve LPS configuration information from the database.

- Consequences: pcd exits after the cleanup with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_MainInit.c] Failed to retrieve PCDS validated parameters from the database.

- Priority: ERROR (3)

- Cause: Unable to retrieve PCD frame fill value from the database.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_MainInit.c] Failed to retrieve the validated scene parameters from the database.

- Priority: ERROR (3)

- Cause: Unable to retrieve the scene parameters from the database.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[pcd_MainProcMajorFrame.c] pcd_MainExtractWord72 failed to extract word 72 information.

- Priority: CRITICAL (2)

- Cause: The failure to extract word 72 information from major frames.

- Consequences: The PCD process exits after the clean up with the error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainReportScenes.c] Failed to send scene information. message.

- Priority: ALERT (1)

- Cause: The return code of the called unit lps_FIFOSend is not LPS_SUCCESS.

- Consequences: pcd exits after the clean up with exit code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainUpdateSubIntv.c] Error from lps_FileNameCreate.

- Priority: ERROR (3)

- Cause: Software was unable to create new PCD filename.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainUpdateSubIntv.c] Error occurred in pcd_MainSetup.

- Priority: ERROR (3)

- Cause: Software was unable to define and set the fields for the new PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainUpdateSubIntv.c] Unable to attach to the PCD File.

- Priority: ERROR (3)

- Cause: Software was unable to attach to the newly created PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainUpdateSubIntv.c] Unable to open the PCD File.

- Priority: ERROR (3)

- Cause: Software was unable to open the new PCD file.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainVerifyCycle.c] Bad return code from VerifyCycleTime.

- Priority: ERROR (3)

- Cause: An unknown return code was received from the called unit pcd_MainVerifyCycleTime.

- Consequences: This unit will return to the calling program with an error status. If PCD_VERIFY_TIME_OPTION is set to a negative value, the calling program will return to its calling program with an error status. For non-negative values of PCD_VERIFY_TIME_OPTION, the current cycle will be discarded and the search for the next valid cycle time will continue.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainVerifyCycleTime.c] Error in VerifyCycleTime – TimeDiff.

- Priority: ERROR (3)

- Cause: An invalid return code was received from the called unit lps_TimeDiff.

- Consequences: This unit will return to the calling program with an error status. If PCD_VERIFY_TIME_OPTION is set to a negative value, the calling program will return to its calling program with an error status. For non-negative values of PCD_VERIFY_TIME_OPTION, the current cycle will be discarded and the search for the next valid cycle time will continue.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainWriteCycleToFile.c] Error from pcd_db_StoreMjfAcct.

- Priority: ERROR (3)

- Cause: Software was unable to write the major frame accounting information to the database.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Check input data against database constraints for Major Frame Accounting data. Also check that the user is not trying to insert the same record twice.

[pcd_MainWriteCycleToFile.c] Error writing fill record to HDF file.

- Priority: ERROR (3)

- Cause: Corrupt fill buffer was created by software or PCD file was not opened correctly.

- Consequences: <PCD> exits immediately with exit code <LPS_FAILURE>.

- Recommended action: Report this error to LPS maintenance staff.

[pcd_MainWriteCycleToFile.c] Error writing HDF record to HDF file.

- Priority: ERROR (3)

- Cause: Corrupt input data.

- Consequences: Software will fail to create a readable PCD file.

- Recommended action: Check input data.

[rdc.c] Unable to open PIDTempFile. L0R processes may be allowed to run.

- Priority: WARNING (4)

- Cause: The temporary file which indicates raw data capture could not be created.

- Consequences: Without the existence of this file, there is no way for L0R processes to be aware of raw data capture and therefore L0R processes could run possibly affecting the performance of raw data capture.

- Recommended action: Manually create this file, PIDTempFile, in the "/tmp" directory and report this error to LPS maintenance staff.

[rdc_Decode.c] Missing mandatory channel identifier. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: The command line option for the Channel Identifier is missing.

- Consequences: RDCS terminates.

- Recommended action: Re-enter command line with a valid Channel Identifier.

[rdc_DecodeArg.c] Invalid mandatory channel identifier. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: The command line option for the Channel Identifier is invalid.

- Consequences: RDCS terminates.

- Recommended action: Re-enter command line with a valid Channel Identifier.

[rdc_DecodeArg.c] Invalid option or invalid/missing argument to option. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: One of the command line options is invalid or a required argument to an option is missing.

- Consequences: RDCS terminates.

- Recommended action: Re-enter command line with valid entries.

[rdc_DecodeArg.c] Invalid start time entered. Start time set to NULL.

- Priority: WARNING (4)

- Cause: The command line start time entered is invalid.

- Consequences: Start time entered into the database for raw data capture accounting information is set to NULL. This has no effect on the capture.

- Recommended action: None.

[rdc_DecodeArg.c] Invalid stop time entered. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: The command line stop time entered is invalid.

- Consequences: RDCS terminates.

- Recommended action: Re-enter command line with valid stop time.

[rdc_DecodeArg.c] Missing mandatory filename for test data. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: The command line option or argument to the option for filename is missing. This is for testing raw data capture. The filename option is not mandatory for raw data capture.

- Consequences: RDCS terminates.

- Recommended action: Re-enter command line with filename option and valid filename.

[rdc_DecodeArg.c] Missing or invalid argument to the option entered. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: Either the required option is missing or the required argument to the required option is missing.

- Consequences: RDCS terminates.

- Recommended action: Re-enter command line with the required option(s) and the required argument(s) to the options.

[rdc_DecodeArg.c] No stop time entered. Contact set to maximum contact duration.

- Priority: WARNING (4)

- Cause: The command line options did not include a stop time.

- Consequences: The stop time is set to the maximum contact duration. This error message signifies a further validation of the stop time than the previous stop time error message.

- Recommended action: Three options: 1) Manually shutdown RDCS immediately and re-start with the correct stop time; 2) Do nothing and capture for the entire duration of the longest contact; 3) Manually shutdown RDCS at the desired time.

[rdc_DecodeArg.c] Redundant option entered. Argument (if applicable) is set to last entry.

- Priority: WARNING (4)

- Cause: A command line option has been entered more than once.

- Consequences: The value of the last repeated command line option is the final value used.

- Recommended action: Check the command line entered and verify that the option values inserted are correct.

[rdc_GetTermFileName.c] Shut down filename set to default.

- Priority: ERROR (3)

- Cause: Building path name for the shut down file has failed due to an error in an IRIX library function.

- Consequences: rdc will continue to run. The shut down file's name will be "/tmp/ShutdownFile."

- Recommended action: Report this error to LPS maintenance staff.

[rdc_GetTermFileName.c] Temp path environment variable error. Shutdown file path set to default.

- Priority: ERROR (3)

- Cause: Building a full path name for the shut down file has failed due to an error in an IRIX library function.

- Consequences: rdc continues. The shut down file's name will be "/tmp/ShutdownFile."

- Recommended action: Report this error to LPS maintenance staff.

[rdc_Init.c] Not enough space on capture disk for maximum contact.

- Priority: CRITICAL (2)

- Cause: Capture disk available space is not enough to accommodate the longest contact duration.

- Consequences: Capture continues.

- Recommended action: If necessary, delete raw data files to allow space for capture.

[rdc_Init.c] Rawfile path environment variable error. Rawfile path set to default.

- Priority: ERROR (3)

- Cause: Building a full path name for the raw data file has failed due to an error in an IRIX library function.

- Consequences: The raw data filename is set to the default /u01/rawfile.

- Recommended action: Report this error to LPS maintenance staff.

[rdc_Init.c] Sprintf error. Filename set to the default.

- Priority: WARNING (4)

- Cause: Error when concatenating raw data capture filename.

- Consequences: The raw data capture filename is set to the default, /u01/rawfile.

- Recommended action: Report this error to LPS maintenance staff.

[rdc_Init.c] Unable to access process identifier. Process identifier is zero.

- Priority: INFO (6)

- Cause: The temporary file, PIDTempFile, serves to signify raw data capture activity. The process identifier is placed in this file but is not used at this time. If RDCS is not able to retrieve this process identifier, this could indicate other problems.

- Consequences: None.

- Recommended action: Report this error to LPS maintenance staff since this could reveal other problems.

[rdc_Init.c] Unable to check capture disk space.

- Priority: CRITICAL (2)

- Cause: A system error prevented RDCS from checking the disk space for the raw data capture file.

- Consequences: This could have severe Consequences: if the raw data capture disk is full.

- Recommended action: Check the disk space manually and 1) delete raw data files to make space for the oncoming capture if necessary; 2) manually stop raw data capture if disk space is not sufficient but deletion of files is impossible; 3) nothing if space is adequate. Also, report this error to LPS maintenance staff.

[rdc_Init.c] Unable to close PIDTempFile. L0R processes may be allowed to run.

- Priority: ERROR (3)

- Cause: The PIDTempFile which prevents L0R processes from running during a capture did not close properly.

- Consequences: Without the presence of this file, there is no way for other processes to know RDCS is running therefore L0R processes may run during a capture.

- Recommended action: Manually create this temporary file, PIDTempFile, in the default directory "/tmp" and report this error to LPS maintenance staff.

[rdc_Init.c] Unable to concatenate accounting filename. Accounting filename set to default.

- Priority: ERROR (3)

- Cause: Building a full path name for the raw data accounting file has failed due to an error in an IRIX library function.

- Consequences: The default filename, AccountFile is used.

- Recommended action: Report this error to LPS maintenance staff.

[rdc_Init.c] Unable to open raw/test data file. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: An error occurred as RDCS tried to open either the raw data file for capture or the raw data file for testing.

- Consequences: RDCS terminates.

- Recommended action: Report this error to LPS maintenance staff immediately.

[rdc_Init.c] Unable to write the PID to the PIDTempFile.

- Priority: WARNING (4)

- Cause: Attempt failed to write the process identifier to the PIDTempFile - the temporary file indicating raw data capture activity.

- Consequences: None.

- Recommended action: Report this error to LPS maintenance staff.

[rdc_Main.c] Failure to capture raw data. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: An attempt to capture raw data has failed.

- Consequences: RDCS terminates without capturing raw data.

- Recommended action: Report this error to LPS maintenance staff.

[rdc_Main.c] Shutting down raw data capture.

- Priority: NOTICE (5)

- Cause: RDCS is terminating.

- Consequences: None.

- Recommended action: None.

[rdc_Main.c] Suspending Level 0R processes.

- Priority: INFO (6)

- Cause: The user has chosen to suspend L0R processes during raw data capture activity. This message indicates RDCS has successfully suspended the L0R processes.

- Consequences: L0R processes are paused.

- Recommended action: None.

[rdc_Main.c] Unable to disconnect from the LPS database.

- Priority: ERROR (3)

- Cause: RDCS failed to disconnect properly from the LPS database.

- Consequences: The database is not updated.

- Recommended action: Report this error to LPS DBA.

[rdc_Main.c] Unable to update the lps database with raw data capture information.

- Priority: ERROR (3)

- Cause: RDCS failed to update the LPS database with the raw data capture accounting information.

- Consequences: The database will not be updated with the current raw data capture accounting information.

- Recommended action: Report this error to LPS DBA.

[rdc_Main.c] Unable to write accounting information to the file.

- Priority: ERROR (3)

- Cause: Following raw data capture, an accounting file is created to store the capture information. This message indicates an error in attempting to write to this accounting file.

- Consequences: The raw data capture information for the current capture will not be saved nor updated into the database.

- Recommended action: Report this error to LPS maintenance staff.

[rdc_Main.c] Unable to write on-line flag in database.

- Priority: WARNING (4)

- Cause: RDCS failed to update the database with the on-line flag indicating which raw data capture file is in active memory.

- Consequences: L0R processing will not attempt to process this capture.

- Recommended action: Invoke rdc_SetOnLineFlag via the command line. This program will search the active raw data capture files' directory for raw data capture files and set the on-line flag in the database to ensure L0R processing.

[rdc_MainCapture.c] Account filename sprintf error.

- Priority: WARNING (4)

- Cause: Building the raw data capture account file's name has failed due to an error in an IRIX library function.

- Consequences: The raw data capture accounting file's name is set to the default "AccountFile."

- Recommended action: Report this error to LPS maintenance staff.

[rdc_MainCapture.c] Capture device error. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: Hardware/Device driver failure.

- Consequences: No raw data capture file.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdc_MainCapture.c] Child process, rdc_ShutDownRDC error.

- Priority: ALERT (1)

- Cause: The shut down child process has failed.

- Consequences: RDCS will not shut down properly.

- Recommended action: Invoke rdc_ShutDownRDC manually via the command line with the proper stop time option. To shut down RDCS immediately, invoke rdc_Terminate from the command line. Also, report this error to LPS maintenance staff.

[rdc_MainCapture.c] Child process, rdc_ShutDownRDC successful return.

- Priority: INFO (6)

- Cause: The successful completion of the shut down process.

- Consequences: RDCS should terminate gracefully.

- Recommended action: None.

[rdc_MainCapture.c] Filename sprintf error. Manually rename raw data file.

- Priority: ALERT (1)

- Cause: Error in an IRIX library function.

- Consequences: The raw data file's name does not contain the necessary information for identification.

- Recommended action: Rename the file manually using the start time following the format : YY-DDD-HH:MM:SS_XX..X.EXT where YY = year, DDD = day, HH = hour, MM = minute, SS = second, XX..X = string identifier and EXT = "cpt." Also, report this error to LPS maintenance staff.

[rdc_MainCapture.c] Invalid stop time entered. Contact set to maximum duration.

- Priority: WARNING (4)

- Cause: The input stop time is invalid.

- Consequences: The stop time is set to the maximum contact duration.

- Recommended action: If this is not the desired result, manually shut down raw data capture by invoking rdc_Terminate from the command line at the appropriate time. Raw data capture terminates immediately upon entry of this command.

[rdc_MainCapture.c] Pathname sprintf error.

- Priority: ALERT (1)

- Cause: Error in an IRIX library function.

- Consequences: The raw data file's name does not contain the necessary information for identification.

- Recommended action: Rename the file manually using the start time following the format : YY-DDD-HH:MM:SS_XX..X.EXT where YY = year, DDD = day, HH = hour, MM = minute, SS = second, XX..X = string identifier and EXT = "cpt." Also, report this error to LPS maintenance staff.

[rdc_MainCapture.c] Shut down raw data capture.

- Priority: INFO (6)

- Cause: RDCS terminating.

- Consequences: End of raw data capture activity.

- Recommended action: None.

[rdc_MainCapture.c] Spawn ShutDownRDC error. Termination of RDCS will have to be done manually.

- Priority: CRITICAL (2)

- Cause: The shut down child process has failed.

- Consequences: RDCS will not shut down properly. The results could be severe.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdc_MainCapture.c] Starting RAW DATA CAPTURE.

- Priority: INFO (6)

- Cause: RDCS is beginning to capture raw data.

- Consequences: None.

- Recommended action: None.

[rdc_MainCapture.c] Stop time error. Contact set to maximum duration.

- Priority: WARNING (4)

- Cause: The input stop time is invalid.

- Consequences: The stop time is set to the maximum contact duration.

- Recommended action: If this is not the desired result, manually shut down raw data capture by invoking rdc_Terminate from the command line at the appropriate time. Raw data capture terminates immediately upon entry of this command. Also, report this error to LPS maintenance staff.

[rdc_MainCapture.c] Transfer time calculation error. Check actual start/stop time. The difference between the actual start and stop time indicates no data received. Check raw data capture file.

- Priority: WARNING (4)

- Cause: Not enough data received for a minimum contact.

- Consequences: No raw data capture file created. RDCS terminates.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdc_MainCapture.c] Unable to close capture device.

- Priority: CRITICAL (2)

- Cause: Hardware/Device driver failure.

- Consequences: If the raw data capture device does not shut down properly, the Consequences: could be severe, the system could crash.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdc_MainCapture.c] Unable to close raw data file. Check file.

- Priority: CRITICAL (2)

- Cause: This message indicates that either there was an error in an IRIX library function or a system failure.

- Consequences: The raw data capture file may be corrupt.

- Recommended action: Report this error to LPS maintenance staff.

[rdc_MainCapture.c] Unable to get the host name. String ID set to "U."

- Priority: WARNING (4)

- Cause: Error in an IRIX library function.

- Consequences: The string identifier is excluded from the raw data capture file's name.

- Recommended action: For proper identification of the raw data capture file, it is advised to rename the raw data capture file to include the string identifier. The format of the raw data capture filename is: YY-DDDH:MM:SS_XX..X.EXT where YY = year, DDD = day, HH = hour, MM = minute, SS = second, XX..X = string identifier and EXT = "cpt." Also, report this error to LPS maintenance staff and the systems administrator.

[rdc_MainCapture.c] Unable to rename the raw data file. Rename manually.

- Priority: ALERT (1)

- Cause: Error in an IRIX library function.

- Consequences: The raw data file's name does not contain the necessary information for identification.

- Recommended action: Rename the file manually using the start time following the format: YY-DDD-HH:MM:SS_XX..X.EXT where YY = year, DDD = day, HH = hour, MM = minute, SS = second, XX..X = string identifier and EXT = "cpt." Also, report this error to LPS maintenance staff.

[rdc_MizarFunctions.c] Capture device read error. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: Failure to read raw data. This is either a hardware failure or a device driver failure.

- Consequences: No raw data capture file created. RDCS terminates.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdc_MizarFunctions.c] Capture device write error. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: Failure to write raw data to capture disk. This is either a hardware failure or a device driver failure.

- Consequences: No raw data capture file created. RDCS terminates.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdc_MizarFunctions.c] Unable to open capture device. Aborting RDCS.

- Priority: CRITICAL (2)

- Cause: Failure to open capture device. This is either a hardware failure or a device driver failure.

- Consequences: No raw data capture file created. RDCS terminates.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdc_ShutDownRDC.c] Close capture device error.

- Priority: CRITICAL (2)

- Cause: Hardware/device driver failure.

- Consequences: Capture device will not close properly. This could Cause: severe malfunction of LPS.

- Recommended action: Notify LPS maintenance staff immediately.

[rdc_ShutDownRDC.c] Close ShutDownFile error.

- Priority: WARNING (4)

- Cause: Attempt to close shut down file failed. This shut down file is a temporary file created to indicate termination of RDCS.

- Consequences: Shut down file is not closed properly.

- Recommended action: Invoke rdc_Terminate to create a new ShutDownFile in order to terminate RDCS properly.

[rdc_ShutDownRDC.c] RESET THE MIZAR BOARD BY PRESSING THE MIZAR RESET BUTTON.

- Priority: ALERT (1)

- Cause: End of raw data capture.

- Consequences: RDCS terminates.

- Recommended action: Reset the mizar board as instructed. If after a few seconds capture does not terminate, reset again.

[rdc_ShutDownRDC.c] RESET_CPU error.

- Priority: CRITICAL (2)

- Cause: Unable to reset the capture device.

- Consequences: Raw data capture will not terminate normally. The results could be severe.

- Recommended action: Immediately Notify LPS maintenance staff immediately.

[rdc_ShutDownRDC.c] Shut down capture device argument invalid. Capture requires manual shut down.

- Priority: CRITICAL (2)

- Cause: The shut down child process has failed.

- Consequences: RDCS will not shut down properly. The results could be severe.

- Recommended action: Immediately report this error to LPS maintenance staff.

[rdp_BCHBuildMsnQuadTable.c] Could not obtain value for environment variable LPS_TABLE_PATH.

- Priority: CRITICAL (2)

- Cause: Failed to get environment variable LPS_TABLE_PATH

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to the LPS system administration staff.

[rdp_BCHBuildMsnQuadTable.c] Could not open input file.

- Priority: CRITICAL (2)

- Cause: Failed to open quadratic table file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to the LPS system administration staff.

[rdp_BCHBuildMsnQuadTable.c] full_quad_path.

- Priority: CRITICAL (2)

- Cause: Failed to get full_quad_path.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to the LPS system administration staff.

[rdp_BCHBuildMsnQuadTable.c] Could not read input file.

- Priority: CRITICAL (2)

- Cause: Failed to read data from input file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_BCHBuildMsnQuadTable.c] full_quad_path.

- Priority: CRITICAL (2)

- Cause: Failed to get full_quad_path.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_BCHDecode.c] Build BCH mission quadratic table.

- Priority: CRITICAL (2)

- Cause: Failed to build BCH mission quadratic table.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_BCHDecode.c] BCH transpose fails.

- Priority: CRITICAL (2)

- Cause: Failed to de-interleave the code block.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_BCHDecode.c] BCH error counts exceed MAX allowed.

- Priority: CRITICAL (2)

- Cause: BCH error counts exceed MAX allowed.

- Consequences: None.

- Recommended action: None.

[rdp_BCHMsnChienSearch.c] Argument ELArg out of range.

- Priority: CRITICAL (2)

- Cause: Error locator arguments are more than eight.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_BCHPtrChienSearch.c] Argument ELArg out of range.

- Priority: CRITICAL (2)

- Cause: Error locator arguments are more than eight.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_BCHTransposeCadu.c] Error return from rdp_BCHMsnChienSearch.

- Priority: CRITICAL (2)

- Cause: Failed to search errors in Mission data block.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_BCHTransposeCadu.c] Error return from rdp_BCHPtrChienSearch.

- Priority: CRITICAL (2)

- Cause: Failed to search errors in data pointer.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_CRCCheck.c] CRC error counts overflow.

- Priority: CRITICAL (2)

- Cause: CRC error counts is more than threshold value.

- Consequences: None.

- Recommended action: None.

[rdp_Main.c] An error was returned from lps_ParseOptions. RDPS must be restarted.

- Priority: CRITICAL (2)

- Cause: Failed to enter required arguments for starting the RDPS task.

- Consequences: RDPS will exit immediately with error code LPS_FAILURE.

- Recommended action: Check with LPS user's guide or related documents.

[rdp_Main.c] RDPS has started processing the raw wideband data file: <datafilename>.

- Priority: INFO (6)

- Cause: Begin to process raw data file.

- Consequences: None.

- Recommended action: None.

[rdp_Main.c] An error was returned from rdp_MainInit, RDPS will be terminating.

- Priority: CRITICAL (2)

- Cause: Failed to initialize the RDPS subsystem.

- Consequences: Set return status to LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_Main.c] An error was returned from rdp_MainExtractCADU. RDPS will be terminating.

- Priority: CRITICAL (2)

- Cause: Failed to extract CADU from storage.

- Consequences: Set return status to LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_Main.c] An error was returned from rdp_MainValidateCADU. RDPS will be terminating.

- Priority: CRITICAL (2)

- Cause: Failed to validate CADU.

- Consequences: Set return status to LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_Main.c] An error was returned from rdp_BCHDecode. RDPS will be terminating.

- Priority: CRITICAL (2)

- Cause: Failed to decode BCH code word.

- Consequences: Set return status to LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_Main.c] An error was returned from rdp_MainGenerateOutput. RDPS will be terminating.

- Priority: CRITICAL (2)

- Cause: Failed to generate RDPS output.

- Consequences: Set return status to LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_Main.c] RDPS was unable to write the return-link accounting information.

- Priority: CRITICAL (2)

- Cause: Failed to enter the RDPS account information in the database.

- Consequences: Set return status to LPS_FAILURE.

- Recommended action: Report this error to LPS DBA.

[rdp_MainExtractCADU.c] Parameter rdp_mainDataFilePtr is negative.

- Priority: CRITICAL (2)

- Cause: Invalid rdp_mainDataFilePtr.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainExtractCADU.c] Parameter rdp_mainFirstEntry is out of range.

- Priority: CRITICAL (2)

- Cause: Invalid rdp_mainFirstEntry.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainExtractCADU.c] Error in calling fstat file might not exist.

- Priority: CRITICAL (2)

- Cause: Failed to access fstat file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainExtractCADU.c] Wideband data file is empty, that is, has 0 bytes.

- Priority: CRITICAL (2)

- Cause: Failed to provide the wide band data.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainExtractCADU.c] Call to lps_ShmGetWrBlk came back with an error code.

- Priority: CRITICAL (2)

- Cause: Failed to get shared memory write block.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainExtractCADU.c] Call to rdp_MainObtainData came back with an error code.

- Priority: CRITICAL (2)

- Cause: Failed to obtain raw data.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainExtractCADU.c] Call to rdp_MainFSync came back with an error code.

- Priority: CRITICAL (2)

- Cause: Failed to get frame sync.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainFSync.c] Parameter rdp_mainSyncThresholdArg is not a positive integer.

- Priority: CRITICAL (2)

- Cause: Invalid rdp_mainSyncThresholdArg for function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainFSync.c] Parameter rdp_mainRawDataSizeArg is out of range.

- Priority: CRITICAL (2)

- Cause: Invalid rdp_mainRawDataSizeArg for the function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainFSync.c] Parameter rdp_mainEOFArg is not equal to LPS_TRUE and LPS_FALSE.

- Priority: CRITICAL (2)

- Cause: Invalid rdp_mainEOFArg for the function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainFSync.c] Call to memalign failed in rdp_MainFSync. Fatal error.

- Priority: CRITICAL (2)

- Cause: function call memalign fails.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to the LPS system administration staff.

[rdp_MainFSync.c] fs_initialize has passed back LPS_FS_FAILURE.

- Priority: INFO (6)

- Cause: Failed to initialize the frame sync routines.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainFSync.c] fs_frame_sync has passed back LPS_FS_FAILURE.

- Priority: INFO (6)

- Cause: Failed to get frame sync.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainFSync.c] fs_terminate has passed back LPS_FS_FAILURE.

- Priority: INFO (6)

- Cause: Failed to terminate frame sync routines.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainGenerateOutput.c] Error was returned from rdp_MainStoreFailedCADUs.

- Priority: ERROR (3)

- Cause: Failed to store bad CADUs.

- Consequences: None.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainGenerateOutput.c] RDPS could not release shared memory block.

- Priority: CRITICAL (2)

- Cause: Failed to release write block in the shared memory.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainInit.c] RDPS process initialization failed.

- Priority: CRITICAL (2)

- Cause: Failed to initialize the RDPS process.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainInit.c] RDPS was unable to retrieve CCSDS Parameters.

- Priority: CRITICAL (2)

- Cause: Failed to retrieve CCSDS parameters from database.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to the LPS database administration staff.

[rdp_MainInit.c] RDPS could not retrieve error thresholds, default values will be used.

- Priority: WARNING (4)

- Cause: Failed to retrieve error threshold from database.

- Consequences: Set to default values.

- Recommended action: Report this error to the LPS database administration staff.

[rdp_MainInit.c] RDPS was unable to open raw wideband data file: <datafilename>.

- Priority: CRITICAL (2)

- Cause: Failed to open data file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainInit.c] RDPS was unable to open failed CADUs file <FailedCADUfile>.

- Priority: CRITICAL (2)

- Cause: Failed to open or create file which store failed CADUs.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainInit.c] RDPS cannot open RDPMFP shared memory segment.

- Priority: CRITICAL (2)

- Cause: Failed to open RDPMFP shared memory.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainObtainData.c] Parameter rdp_mainDataFilePtrArg is less than zero. May be corrupted.

- Priority: CRITICAL (2)

- Cause: Invalid rdp_mainDataFilePtrArg for function call.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainObtainData.c] Call to memalign failed. Fatal error.

- Priority: CRITICAL (2)

- Cause: Failed to call memalign function.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainObtainData.c] Read error encountered.

- Priority: CRITICAL (2)

- Cause: Failed to read raw data file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainObtainData.c] Bogus value returned from read.

- Priority: CRITICAL (2)

- Cause: Failed to read raw data file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainShutdown.c] RDPS is terminating with errors.

- Priority: WARNING (4)

- Cause: Failed to complete RDPS processing.

- Consequences: None.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainShutdown.c] RDPS is terminating with no errors.

- Priority: INFO (6)

- Cause: Complete RDPS processing.

- Consequences: None.

- Recommended action: None.

[rdp_MainSignalShutdown.c] RDPS received a signal and is terminating.

- Priority: WARNING (4)

- Cause: Abort RDPS processing because of a signal.

- Consequences: RDPS exit s immediately with error codes.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainStoreFailedCADUs.c] Error occurred when accessing LPSConfiguration database.

- Priority: ERROR (3)

- Cause: Failed to retrieve LPSConfiguration.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to the LPS database administration staff.

[rdp_MainStoreFailedCADUs.c] Error occurred when writing to the failed CADU file.

- Priority: ERROR (3)

- Cause: Failed to write header size to the Failed CADU file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainStoreFailedCADUs.c] Error occurred when writing to the failed CADU file.

- Priority: ERROR (3)

- Cause: Failed to write header line to the Failed CADU file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainStoreFailedCADUs.c] Error occurred when writing to the failed CADU file.

- Priority: ERROR (3)

- Cause: Failed to write CADU record size to the Failed CADU file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainStoreFailedCADUs.c] Error occurred when writing to the failed CADU file.

- Priority: ERROR (3)

- Cause: Failed to write CADU record to the Failed CADU file.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainStoreFailedCADUs.c] Failed CADUs exceed the maximum allowed file size. Writing to the file will be terminated.

- Priority: WARNING (4)

- Cause: Failed to write failed CADU because the size of the file is limited.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] State argument, rdp_mainState, out of range.

- Priority: CRITICAL (2)

- Cause: Invalid argument rdp_mainState for the function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] Position in buffer argument, rdp_mainPositionInBuff, out of range.

- Priority: CRITICAL (2)

- Cause: Invalid argument rdp_mainPositionInBuff for the function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] Inverted CADU argument, rdp_mainInvertedCADU, out of range.

- Priority: CRITICAL (2)

- Cause: Invalid argument rdp_mainInvertedCADU for the function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] Slippage amount argument, rdp_mainSlippage, out of range.

- Priority: CRITICAL (2)

- Cause: Invalid argument rdp_mainSlippage for the function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] Slippage amount argument, rdp_mainSlippage, out of range.

- Priority: CRITICAL (2)

- Cause: Invalid argument rdp_mainSlippage for the function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] Number of bit errors argument, rdp_mainNumFlippedBits, out of range.

- Priority: CRITICAL (2)

- Cause: Invalid argument rdp_mainNumFlippedBits for function call.

- Consequences: Set param_error flag to 1. Return with LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] Internal holding area for annotated CADUs has overflowed.

- Priority: CRITICAL (2)

- Cause: Failed to hold more annotated CADUs in holding area.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_MainTranToShared.c] Synch error threshold has been exceeded.

- Priority: INFO (6)

- Cause: Synch error counts overflow.

- Consequences: None.

- Recommended action: None.

[rdp_MainValidateCADU.c] Reed-Solomon check fails.

- Priority: CRITICAL (2)

- Cause: Failed to decode Reed_Solomon code word.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_RSCheck.c] Reed-Solomon initialization fails.

- Priority: CRITICAL (2)

- Cause: Failed to initialize Reed-Solomon parameters.

- Consequences: Return with error code LPS_FAILURE.

- Recommended action: Report this error to LPS maintenance staff.

[rdp_RSCheck.c] VCDU header errors counts overflow.

- Priority: CRITICAL (2)

- Cause: VCDU header errors are more than threshold.

- Consequences: None.

- Recommended action: None.

Abbreviations and Acronyms

ACCA	Automated Cloud Cover Assessment
ASCII	American Standard Code for Information Interchange
BCH	Bose-Chaudhuri-Hocquenghem (error detection and correction)
CADU	channel access data unit
CCA	Cloud Cover Assessment
CCR	configuration change request
CCSDS	Consultative Committee for Space Data Systems
CNMOS	Consolidated Network Management and Operations Support
CPF	calibration parameter file
CRB	Central Review Board
CRC	cyclic redundancy code
DAAC	Distributed Active Archive Center
DAA	data availability acknowledgment
DAN	data availability notice
DBA	database administrator
DBMS	database management system
DCN	document change notice
DDA	data delivery acknowledgment
DDN	data delivery notice
DLT™	Digital Linear Tape
ECS	EOS Core System
EDC	EROS Data Center
EOL	end of line
ETM+	Enhanced Thematic Mapper Plus
EROS	Earth Resources Observation System
FDDI	fiber-distributed data interface
FTP	File Transfer Protocol

GB	gigabyte
GTSIM	Generic Telemetry Simulator
GUI	graphical user interface
IAS	Image Assessment System
ID	identifier
IDPS	image data processing subsystem
IFOV	instantaneous field-of-view
IP	Internet Protocol
L0R	Level Zero R
LGS	Landsat Ground Station
LPS	Landsat 7 Processing System
Mbps	megabits per second
MOC	Mission Operations Center
MSCD	mirror scan correction data
MWD	Moving Window Display
PCD	payload correction data
Q&A	quality and accounting
RAID	redundant arrays of independent disks
RAM	random access memory
SCID	spacecraft identifier
SGI	Silicon Graphics, Inc.
SQL	Structured Query Language
TBA	to be added
TBD	to be defined
TBR	to be resolved
UTC	universal time coordinated
VCDU	virtual channel data unit
VME	Versa-Module European
WRS	Worldwide Reference System

Glossary

Band file
A **Level 0R output file** containing the image data from a single band in a single subinterval.

Browse image file
A **Level 0R output file** containing a reduced resolution image in three spectral bands of a scene.

Calibration file
A **Level 0R output file containing** the calibration data collected at the end of each scan for a single subinterval.

Contact (period)
The time period between the start and end of wideband data transmissions from the Landsat 7 satellite to a ground station.

Daemon (process)
A process without a controlling terminal that executes in the background. LPS daemon processes perform automatic **data capture**, copying to tape, **Level 0R processing**, and **DDN** processing. The IRIX **syslogd** daemon formats and routes LPS status and error messages to the **LPS Journal file**.

Data availability acknowledgment (DAA)

An LPS/EDC DAAC communication message sent by EDC DAAC to acknowledge receipt of a **data availability notice**.

Data availability notice (DAN)

An LPS/EDC DAAC communication message sent by the LPS to notify EDC DAAC that a **file set** is available for transfer.

Data delivery acknowledgment (DDA)

An LPS/EDC DAAC communication message sent by the LPS to acknowledge receipt of a **data delivery notice**.

Data delivery notice (DDN)

An LPS/EDC DAAC communication message sent by EDC DAAC to notify the LPS of the disposition of its attempts to transfer a **file set**.

DDN server
An LPS **daemon** that accepts and processes **DDNs** from EDC DAAC.

Enhanced Thematic Mapper Plus (ETM+)

The imaging instrument onboard Landsat 7.

ETM+ format
One of two 150-Mbps telemetry streams output by the ETM+. Format 1 contains spectral Bands 1 through 6. Format 2 contains spectral Bands 6, 7, and 8. Both formats include calibration data , mirror scan correction data, and payload correction data.

File group   A collection of **Level 0R output files** for a single subinterval comprising one component of **file set**.

File set   A collection of all **Level 0R output files** for a single **Level 0R processing** run. The file set includes **file groups**, one for each subinterval extracted by the processing.

I channel   A 75-Mbps portion of an **X-band** channel containing either **format 1** or **format 2** telemetry data.

IRIX   A version of the UNIX operating system running on **LPS strings** and Indy **workstations**.

Level 0R output files The set of files produced by L0R processing, consisting of **band files**, **browse files**, **calibration files**, **MSCD files**, and **metadata files.**

Level 0R processing The operation of extracting Landsat 7 images, as well as correction and calibration information from **raw wideband data**, to produce **Level 0R output files**.

Level 0R Q&A data   The data Q&A information collected by the LPS from processing of the ETM+ major frames during **Level 0R processing**.

LPS database   A persistent storage repository containing configuration elements that can be set, **Level 0R processing** parameters and error reporting thresholds as well as Q&A information for **data capture**, **Level 0R processing**, and **Level 0R output file** transfer.

LPS GUI   The LPS graphical user interface that provides access to LPS functions on a single **LPS string**. The LPS GUI consists of a main menu from which LPS commands can be selected, additional dialogs for providing parameters to the command, and confirmation dialogs to prevent accidental command execution.

LPS Journal file   An ASCII file containing all of the status and error messages generated by the LPS software.

LPS string   One of five computers that hosts LPS processing. Four LPS strings are operational and perform **data capture** (each captures a single 75-Mbps channel) and **Level 0R processing** functions. A fifth string is used for training and development and as an emergency backup.

Metadata file   A **Level 0R output file** containing information on the L0R data provided in the subinterval and the names of the L0R **band file**, **calibration file**, **PCD file**, **MSCD file,** and **browse files** associated with the subinterval. Metadata also contains Q&A information on the data contained in the subinterval.

Mirror scan correction data (MSCD) file

                    A **Level 0R output file** containing the first half scan error, second half scan error, and scan direction for each scan.

ORACLE   A commercial DBMS used to manage the **LPS database** on each **LPS string**.

Payload correction data (PCD) file

  A **Level 0R output file** containing PCD major frames received during a subinterval.

Playback (telemetry)   Telemetry data that is stored onboard the satellite when it is generated and replayed to a ground station at a later time.

Q channel   A 75-Mbps portion of an **X-band** channel containing either **format 1** or **format 2** telemetry data.

Raw wideband data   Telemetry data as received from Landsat 7 through the Landsat Ground Station.

Real-time (telemetry)   Telemetry data that is transmitted to a ground station as it is generated by the ETM+.

Retention status   Whether or not a **Level 0R output file** is marked in the **LPS database** as to be deleted automatically after successful transfer to EDC DAAC.

Return-link Q&A data

  The data Q&A information collected by LPS L0R processing from CCSDS Grade 3 and BCH error detection and correction processing during **L0R processing**.

Shell   One of several IRIX programs that provide a command line interface for invoking programs, built-in commands for performing a set of operations such as echoing input, and an environment in which variables controlling program operation can be assigned persistent values. Shells also understand rudimentary flow control and will read script files containing commands. This provides a programming capability. Popular shells include the C shell [csh(1)] and Bourne shell [sh(1)].

SQL*Plus   The **ORACLE** SQL interpreter.

Subinterval   A segment of continuous **raw wideband data** received during a Landsat 7 **contact period**. Subintervals are caused by a shift from real-time to playback data or by a shift from one segment of playback to another collected at different time and location. Subintervals may also occur because of breaks in the wideband data stream due to communication dropouts. The largest possible subinterval can be as long as a full contact. The smallest possible subinterval can be as small as one full **WRS scene** with a duration of approximately 24 seconds.

telnet   An IRIX program that allows login and interaction with a remote host.

Workstation   An LPS hardware component used to host the **Moving Window Display** and, optionally, providing an interface to the **LPS strings**. Two

workstations are normally used to host the **Moving Window Display** with each workstation hosting the display for two **LPS strings**. A third workstation is used for training and development and as an emergency backup.

WRS Scene   A frame of imagery defined by the Worldwide Reference System. Each scene is defined as a swath of approximately 179 kilometers (163 kilometers plus 10 percent in-track overlap) centered on a position along the Landsat 7 satellite's track. The WRS assigns sequential path numbers to the satellite's 251 nominal orbit tracks. The WRS also defines 119 numbered latitudinal center lines, called rows, that intersect the paths (row 60 is at the equator). WRS scene centers are defined as the points of intersection of the path and row lines. The scenes are designated by the path and row number at the scene center.

X band   A 150-Mbps downlink channel from Landsat 7. The satellite has three X-band channels. During any contact, at most two of them are active. Each X-band downlink consists of two 75-Mbps **I** and **Q channels.**

X terminal   An LPS hardware component providing an interface to the **LPS strings** and **workstations**. Two X terminals normally host the **LPS GUIs** for the four operational strings, with each X terminal hosting two strings. A third X terminal is used for training and development and as an emergency back-up.

xwsh   An IRIX program that provides an X window interface to a **shell** or to a specified application program.

References

1. *LPS Programmers Reference Manual*, publishing information TBA

2. *IRIX 5.3 Reference Manual*, publishing information TBA

3. *LPS Operations and Maintenance Manual*, 514-3OMM/0196, November 27, 1996

4. *LPS Installation Procedure*, 514-2IP/0195, October 14, 1996

5. *IRIS Essentials*, 007-1342-100, March 1995

6. *Oracle 7 Server Messages and Codes Manual*, Release 7.1, Part No. A12379-2, May 1994

7. *Oracle Developer/2000 Forms 4.5 Messages and Codes Manual*, Part No. A32508-1, 1994

8. *Oracle Developer/2000 Reports 2.5 Messages and Codes Manual*, Part No. A32490-1, April 1995

9. *Oracle 7 for MIPS ABI Systems Installation and Configuration Guide*, Release 7.2, Part No. A36047-1, August 1995

10. *Oracle 7 Server SQL Reference*, Release 7.2, Part No. A20325-2, April 1995

11. *EDC Landsat 7 DHF Standard Operating Procedures*, publishing information TBA

Index

TO BE ADDED